Determination of Rangeland Health

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these Standards.

Field assessment worksheets and other available data which evaluate the local indicators, were completed for this allotment. Based on the assessments, it is my determination that the Public Lands within the Calumet Ranch Allotment #65069 meets the Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) the Riparian Standard.

/s/ T. R. KREAGER	08/25/2003
Assistant Field Manager	Date

Standards of Public Land Health
Evaluation of 65069 CALUMET RANCH Allotment
[05/02/2003]

The Roswell Field Office conducted rangeland health assessments at nine study sites within the CALUMET RANCH allotment, #65069. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area or Assessment Area	UPLAND			BIOTIC			RIPARIAN		
	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
65069-#1 SPRING-D117	X			X			X	*	
65069-#2 WEST #1-D118	X			X			N/A		
65069-#2 WEST #2-D119	X			X			N/A		
65069-#4 EAST #1-D121 (*)	X			X			N/A		
65069-#4 EAST #2-D122 (*)	X			X			N/A		
65069-#6 WADE-D124 (*)	X			X			N/A		
65069-#7 ODOM-D125 (*)	X			X			N/A		
65069-BLACK-D120	X			X			N/A		
65069-SHIPPING TRAP-D123	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for the Calumet Ranch; 10 of these assessed soil/site stability, 11 assessed hydrologic functions and 13 assessed biotic integrity. These qualitative assessments along with quantitative information from long-term monitoring studies on 9 different trend plots throughout the allotment were utilized to make rangeland health determinations. These quantitative evaluations were performed by the Roswell Field office staff starting in the early 1980's. These data included ground and vegetative cover and composition, production, frequency, and ecological condition as calculated from these collections which have been scheduled approximately every 5 years.

Drought has had an impact on these sites over the last few years. Assessments of the indicators ranged from Moderate to Extreme to None to Slight. Four sites, which represented 4 different pastures, East #1, East #2, Odum, and Wade, had Moderate to Extreme ratings in the invasive plants category. Mesquite (Prosopis glandulosa), and/or creosote (Larrea tridentata) were common on these sites and appear to gradually be invading the area. The ecological site description represented by these plots are shallow SD-3 with the aspect of these sites being made up of mostlly a grassland type. However with the drier, more arid conditions over the last few years, the representative grama grasses are being replaced by silicon-containing perennials like burrograss (Scleropogon brevifolius) , threeawns (Aristida spp.), and other increasers which affect palatability to livestock. The Structural/Functional groups for these particular sites are in the Moderate category.

The Spring and West #1 pastures have indicators primarily in the None to Slight to Slight to Moderate category. West #1 is Loamy SD-3 with a Gypsum soil phase. The physical/biological/chemical crust is mostly represented by physical and chemical crusts on these sites and appear to be holding the upper layers of the soil intact. However a point of concern is the early stages of mesquite encroachment on West #1 which may have a possible linkage to soil surface loss, plant community composition and distribution relative to infiltration and runoff and annual production, rating in the Moderate category. Spring pasture has no issues with the exception of annual production and pedestals/terracettes rating in the Moderate category. This suggests influences from drought conditions rather than livestock use.

West #2's indicators rated in the majority of None to Slight to Slight to Moderate category, with the exception of bareground, annual production and invasive plants rating in the Moderate category. But none of these exhibit any real concern at the moment. Favorable precipitation events would further augment this site's potential. Shipping Trap pasture also rated most of the indicators in the None to Slight to Slight to Moderate categories. The only issue is the absence of grama grasses and tobosa (Pleuraphis mutica) which gave a rating of Moderate. However the reproductive capability of the perennial plants to reproduce was not limited. Black pasture also had indicator ratings of None to Slight to Slight to Moderate. Four indicators, however, rated at Moderate; pedestals/terracettes, bareground, litter amount and annual production. There was a generous amount of physical crusting which may be holding the soils in place until

favorable climatic conditions return. This site is loamy SD-3 and exhibits some prickly pear (Opuntia spp.) encroachment but not to the level of limiting this site's potential.

It is the professional opinion of the Assessment Team. that the public land within the Calumet Ranch meets the Upland, Biotic, and Riparian standards. The riparian standard is an issue for Spring Pasture only. See specific site note comments and recommendations for this pasture. In addition, refer to same for West #1 Pasture as it is associated with Spring Pasture in terms of the recommendations.

The (*) indicates that the assessment had one or more indicator(s) rated moderate/extreme or extreme. These indicators are:

- Pedestals and/or Terracettes
- Invasive Plants

These indicators by themselves are not enough to rate the site as not meeting a standard but may warrant future monitoring.

Recommendations: Overall - A more critical evaluation needs to be performed in order to possibly prescribe future vegetation treatments to bring these pastures back to desirable conditions, ie, preferred perennial grasses and palatable shrub or forb species.

Wildlife & Special Status Species: Spring - Remove the public lands in Spring Pasture from the grazing allotment due to wetland-riparian concerns and to serve as a buffer area for the wetlands proper. Negotiate with the State to re-align pasture boundaries to exclude a portion of state land in Section 16 to protect wetland-riparian resources in concert with ACEC overall management objectives. Re-construct necessary pasture/allotment boundary fences. Conduct mesquite control in the loamy areas within the pasture, continue control of invasive saltcedar where found.

West #1 - Construct a pasture boundary fence running along the highway to deter illegal dumping. Continue saltcedar eradication. Conduct mesquite control. Maintain the existing south access road to prevent undue erosion. Incorporate state lands open to grazing in Spring pasture into this pasture, creating one large pasture. Abandon the diagonal fence currently in place.

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65069-#1 SPRING-D117			
Legal Land Desc	SESE 9 0120S 0260E Meridian 23	Acreage	440
Ecosite		Photo Taken	Y
Watershed	13060007010 GOPHER		
Observers	NAVARRO/BAGGAO	Observation Date	06/26/2003
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	HrC	Soil Taxon Name	HOLLOMAN
Texture Class	NM666 L	Soil Phase	HOLLOMAN-GYPSUM LAND
Texture Modifier	NM666 LOAM		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	9.26	NOAA Growing Season Precipitation	5.9
NOAA Avg Annual Precipitation	12.1	NOAA Avg Growing Season Precipitation	10.52
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:						
S H	Pedestals and/or Terracettes			X		
Comments:						
S H	Bare Ground				X	

Comments:						
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement				X	
Comments:	Litter is moving small distances.					
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups					X
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount					X
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants					X
Comments:	Prickly Pear throughout the site.					
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:	There is evidence of biological, physical and chemical crusts.					

B	Wildlife Habitat				X	
Comments:	See Site Notes					
B	Wildlife Populations					X
Comments:	Proghorn antelope occassionally are found in the pasture. Priamry emphasis is waterfowl and shorebirds during the winter season.					
B	Special Status Species Habitat					X
Comments:	Gyp plants are apparent. An experimental population of Pecos sunflower (federal threatened) has been established at the sinkhole on state land. Pecos pupfish are known to occur in the wetlands.					
B	Special Status Species Populations					X
Comments:	Gyp plants apparent. Experimental pop. of sunflower appear to be thriving. Secure pop. of pupfish in wetlands.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	5	4
H	Hydrologic	0	0	1	6	4
B	Biotic	0	0	1	3	9

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets

Soil		0	1	9
Hydrologic		0	1	10
Biotic		0	1	12

Site Notes: Spring Pasture Wildlife Habitat Notes - This pasture is located within the Overflow Wetlands Area of Critical Environmental Concern. A majority of the pasture is Gyp Uplands with some loamy inclusions. The actual wetland habitat is along the west margin of the pasture below the gyp hills. It is about 80 acres in size including public and state land. The pasture also contains riparian habitat (sinkhole, two major outflow channels of the wetlands) located on state land. Two large rights-of-way cross the pasture, a large power transmission line (SPS) and a large oil and gas pipeline (Transwestern). Other developments include an access road to a private residence, two-track roads and fences. The loamier sites within the pasture has been invaded by mesquite. The Pecos River does not cross the pasture. Wetland habitat, gypsiferous hills, and karst features add diversity to wildlife habitat in this pasture.

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65069-#2 WEST #1-D118			
Legal Land Desc	SWSW 15 0120S 0260E Meridian 23	Acreage	1150
Ecosite		Photo Taken	Y
Watershed	13060007040 DEXTER EAST		
Observers	SCHMIDT/BAGGAO/NAVARRO	Observation Date	06/26/2003
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	HrC	Soil Taxon Name	HOLLOMAN
Texture Class	NM666 L	Soil Phase	HOLLOMAN-GYPSUM LAND
Texture Modifier	NM666 LOAM		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	9.26	NOAA Growing Season Precipitation	5.91
NOAA Avg Annual Precipitation	12.3	NOAA Avg Growing Season Precipitation	10.71
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						

S H	Water Flow Patterns					X
Comments:						
S H	Pedestals and/or Terracettes				X	
Comments:						
S H	Bare Ground				X	
Comments:						
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement				X	
Comments:	Evident in open spaces.					
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation			X		
Comments:	Mesquite invasion lowers terrace above flood plain.					
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X		
Comments:	Mesquite invasion.					
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:	Mesquite invasion.					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants			X		
Comments:	Mesquite scattered					

B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts					X
Comments:	Physical crusts evident.					
B	Wildlife Habitat			X		
Comments:	Prosopis and Tamarix invasion on uplands and loamy sites. No riparian resources to be concerned with.					
B	Wildlife Populations				X	
Comments:	Pronghorn antelope occassionally utilize this pasture. Upland game birds also may be found.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	3	6
H	Hydrologic	0	0	2	5	4
B	Biotic	0	0	4	4	5

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9
Hydrologic		0	2	9
Biotic	Mesquite invasion can be found in the loamier sites within the pasture, replacing grassland avifaunal species with those that can utilize brushier habitat.	0	4	9

Site Notes: Wildlife & Special Status Species - This pasture is found within the Overflow Wetlands Area of Critical Environmental Concern. It contains what is called the "South Access Road" to the wetlands that originates off of State Road 409. The east portion of this pasture follows the state road which is the east boundary of the ACEC. It is unfenced at this time. Illegal dumping has occurred in the area. Recently, the south access road was improved for use by Transwestern Pipeline for the intent of bringing in heavy equipment to directionally drill under the Pecos River. The road improvement should alleviate some erosion problems that have occurred over time. A major power transmission line and access road runs diagonally through the pasture. This pasture also includes significant acreage of state land.

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65069-#2 WEST #2-D119			
Legal Land Desc	NWSE 26 0120S 0260E Meridian 23	Acreage	2812
Ecosite		Photo Taken	Y
Watershed	13060007040 DEXTER EAST		
Observers	NAVARRO/BAGGAO	Observation Date	07/07/2003
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	RL	Soil Taxon Name	REEVES
Texture Class	NM666 L	Soil Phase	REEVES-HOLLOMAN
Texture Modifier	NM666 LOAM		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	9.26	NOAA Growing Season Precipitation	5.91
NOAA Avg Annual Precipitation	12.3	NOAA Avg Growing Season Precipitation	10.71
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns					X
Comments:						
S H	Pedestals and/or Terracettes				X	
Comments:						
S H	Bare Ground			X		

Comments:						
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement					X
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer				X	
Comments:						
B	Functional/Structural Groups				X	
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:	Prosopis evident.					
B	Invasive Plants			X		
Comments:						
B	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:	Some physical crusts.					

B	Wildlife Habitat					X
Comments:	Grasslands with some scatterred mesquite.					
B	Wildlife Populations				X	
Comments:	Expect Pronghorn antelope and upland game birds.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	5	4
H	Hydrologic	0	0	1	6	4
B	Biotic	0	0	2	7	4

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9
Hydrologic		0	1	10
Biotic		0	2	11

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65069-#4 EAST #1-D121			
Legal Land Desc	SWSE 28 0120S 0270E Meridian 23	Acreage	2604
Ecosite		Photo Taken	Y
Watershed	13060007040 DEXTER EAST		
Observers	NAVARRO/BAGGAO	Observation Date	07/03/2003
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	TS	Soil Taxon Name	TENCEE
Texture Class	NM666 GR-FSL	Soil Phase	TENCEE-SOTIM
Texture Modifier	NM666 GRAVELLY FINE SAND		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	9.26	NOAA Growing Season Precipitation	5.91
NOAA Avg Annual Precipitation	12.3	NOAA Avg Growing Season Precipitation	10.71
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns			X		
Comments:						
S H	Pedestals and/or Terracettes		X			
Comments:						
S H	Bare Ground				X	

Comments:						
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas			X		
Comments:						
H	Litter Movement				X	
Comments:	Wind and water movement.					
S H B	Soil Surface Resistance to Erosion			X		
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:	Some deposition.					
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X		
Comments:	Prosopis evident.					
S H B	Compaction Layer				X	
Comments:						
B	Functional/Structural Groups			X		
Comments:	Prosopis invading.					
B	Plant Mortality/Decadence				X	
Comments:	Only slightly.					
H B	Litter Amount					X
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants		X			
Comments:	Prosopis.					
B	Reproductive Capability of Perennial Plants				X	
Comments:	Tillering evident.					
S	Physical/Chemical/Biological Crusts				X	
Comments:						

B	Wildlife Habitat				X	
Comments:	Grassland habitat with mesquite invasion.					
B	Wildlife Populations					X
Comments:	Pronghorn antelope, mule deer, upland game birds. Grassland habitat invaded by mesquite shifting species with affinity for shrubby areas.					
B	Special Status Species Habitat					X
Comments:	Small prairie dog colony discovered at the 1/4 section of 32 and 33 in a low-lying area.					
B	Special Status Species Populations					X
Comments:	Prairie dog colony appears to be stable. Need to GPS the town.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	1	3	4	2
H	Hydrologic	0	1	3	4	3
B	Biotic	0	1	3	5	4

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		1	3	6

Hydrologic		1	3	7
Biotic		1	3	9
Site Notes: Note: Newly-discovered prairie dog colony in 1/4 section of 32 and 33. Need to GPS location and protect from surface disturbance.				

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65069-#4 EAST #2-D122			
Legal Land Desc	NESE 23 0120S 0270E Meridian 23	Acreage	0
Ecosite		Photo Taken	Y
Watershed	13060007040 DEXTER EAST		
Observers	NAVARRO/BAGGAO	Observation Date	07/03/2003
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	TS	Soil Taxon Name	TENCEE
Texture Class	NM666 GR-FSL	Soil Phase	TENCEE-SOTIM
Texture Modifier	NM666 GRAVELLY FINE SAND		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	9.26	NOAA Growing Season Precipitation	5.91
NOAA Avg Annual Precipitation	12.3	NOAA Avg Growing Season Precipitation	10.71
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills				X	
Comments:						
S H	Water Flow Patterns			X		
Comments:						
S H	Pedestals and/or Terracettes			X		
Comments:						
S H	Bare Ground			X		

Comments:	Approaches upper end.					
S H	Gullies			X		
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas			X		
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X		
Comments:	Prosopis invasion.					
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups			X		
Comments:	Larrea and Prosopis.					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:	Near potential.					
B	Invasive Plants		X			
Comments:						
B	Reproductive Capability of Perennial Plants				X	
Comments:	Prosopis invasion.					
S	Physical/Chemical/Biological Crusts				X	
Comments:						

B	Wildlife Habitat				X	
Comments:	Upland terrace 200 feet higher than lowlands within pasture. An ecotone with a mixture of mesquite and creosote on gravelly soils. Expect mule deer to utilize breaks and draws, and upland game birds species. May find a diversity of non-game terrestrial species here as well.					
B	Wildlife Populations				X	
Comments:	No specific information available for this area. Expect a shift from grassland species to shrubland species over time. Mesquite and creosote can be found scattered in the area.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	5	4	1
H	Hydrologic	0	0	5	5	1
B	Biotic	0	1	2	6	4

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More	Meets

			Info	
Soil		0	5	5
Hydrologic		0	5	6
Biotic		1	2	10
Site Notes: Pasture is all State Land				

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65069-#6 WADE-D124			
Legal Land Desc	SESE 6 0130S 0270E Meridian 23	Acreage	607
Ecosite		Photo Taken	Y
Watershed	13060007040 DEXTER EAST		
Observers	NAVARRO/BAGGAO	Observation Date	07/07/2003
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	TS	Soil Taxon Name	TENCEE
Texture Class	NM666 GR-FSL	Soil Phase	TENCEE-SOTIM
Texture Modifier	NM666 GRAVELLY FINE SAND		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	9.26	NOAA Growing Season Precipitation	5.91
NOAA Avg Annual Precipitation	12.3	NOAA Avg Growing Season Precipitation	10.71
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:						
S H	Pedestals and/or Terracettes			X		
Comments:						
S H	Bare Ground			X		

Comments:						
S H	Gullies				X	
Comments:	Roads causing gullying.					
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:	Larrea (Creosote) has only a minor effect on infiltration.					
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:						
B	Plant Mortality/Decadence				X	
Comments:						
H B	Litter Amount			X		
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants		X			
Comments:	Larrea increasing in area.					
B	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts					X
Comments:	Weak physical crusting.					

B	Wildlife Habitat				X	
Comments:	Grassland invaded by mesquite and creosote, or could be an ecotone.					
B	Wildlife Populations				X	
Comments:	No specific information for the area. Mule deer and upland game birds may utilize habitat. Expect a shift from grassland species to shrubland species over time.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	2	4	4
H	Hydrologic	0	0	3	6	2
B	Biotic	0	1	2	7	3

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8

Hydrologic		0	3	8
Biotic		1	2	10
Site Notes:				

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65069-#7 ODOM-D125			
Legal Land Desc	NESW 9 0130S 0270E Meridian 23	Acreage	2171
Ecosite		Photo Taken	Y
Watershed	13060007040 DEXTER EAST		
Observers	NAVARRO/BAGGAO	Observation Date	07/07/2003
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	TS	Soil Taxon Name	TENCEE
Texture Class	NM666 GR-FSL	Soil Phase	TENCEE-SOTIM
Texture Modifier	NM666 GRAVELLY FINE SAND		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	9.26	NOAA Growing Season Precipitation	5.91
NOAA Avg Annual Precipitation	12.3	NOAA Avg Growing Season Precipitation	10.71
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:						
S H	Pedestals and/or Terracettes				X	
Comments:						
S H	Bare Ground			X		

Comments:						
S H	Gullies				X	
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement					X
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups			X		
Comments:	Prosopis in area.					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants		X			
Comments:	Prosopis invading.					
B	Reproductive Capability of Perennial Plants			X		
Comments:	Prosopis somewhat inhibiting.					
S	Physical/Chemical/Biological Crusts				X	
Comments:	Very shallow weak crusts.					

B	Wildlife Habitat			X		
Comments:	Heavy mesquite invasion. Habitat quality tending toward Moderate to Extreme. Hills are a small portion of the overall allotment. The study site is located on a hill, but the overall aspect of the pasture appears to be invaded by mesquite. Definite shift of wildlife species due to changes in the vegetative community.					
B	Wildlife Populations			X		
Comments:	Numerous terrestrial species pops. below what would be found in a grassland habitat type, even with occurrence of shrub species. Mesquite has dominated the area.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	6	3
H	Hydrologic	0	0	1	7	3
B	Biotic	0	1	5	3	4

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need	Meets

			More Info	
Soil		0	1	9
Hydrologic		0	1	10
Biotic		1	5	7
Site Notes:				

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65069-BLACK-D120			
Legal Land Desc	NWSE 20 0120S 0270E Meridian 23	Acreage	803
Ecosite		Photo Taken	Y
Watershed	13060007040 DEXTER EAST		
Observers	NAVARRO/BAGGAO/MCGEE	Observation Date	07/03/2003
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	RL	Soil Taxon Name	REEVES
Texture Class	NM666 L	Soil Phase	REEVES-HOLLOMAN
Texture Modifier	NM666 LOAM		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	9.26	NOAA Growing Season Precipitation	5.91
NOAA Avg Annual Precipitation	12.3	NOAA Avg Growing Season Precipitation	10.71
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns					X
Comments:						
S H	Pedestals and/or Terracettes			X		
Comments:						

S H	Bare Ground			X		
Comments:						
S H	Gullies				X	
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:	Dessication due to mud cracking.					
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff					X
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:	Gramas lacking on site.					
B	Plant Mortality/Decadence				X	
Comments:						
H B	Litter Amount			X		
Comments:						
B	Annual Production			X		
Comments:	Absence of gramas and tobosa.					
B	Invasive Plants				X	
Comments:						
B	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts					X

Comments:						
B	Wildlife Habitat					X
Comments:	Flat grasslands. Very dry conditions evident.					
B	Wildlife Populations					X
Comments:	Drought conditions affecting population of pronghorn antelope. Upland game birds may be present in the area.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	2	4	4
H	Hydrologic	0	0	3	4	4
B	Biotic	0	0	2	6	5

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8

Hydrologic		0	3	8
Biotic		0	2	11
Site Notes:				

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65069-SHIPPING TRAP-D123			
Legal Land Desc	SWSW 32 0120S 0270E Meridian 23	Acreage	315
Ecosite		Photo Taken	Y
Watershed	13060007040 DEXTER EAST		
Observers	NAVARRO/BAGGAO/MCGEE	Observation Date	07/03/2003
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	TS	Soil Taxon Name	TENCEE
Texture Class	NM666 FSL	Soil Phase	TENCEE-SOTIM
Texture Modifier	NM666 GRAVELLY FINE SAND		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	9.26	NOAA Growing Season Precipitation	5.91
NOAA Avg Annual Precipitation	12.3	NOAA Avg Growing Season Precipitation	10.71
Disturbances and Animal Use:			

Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns					X
Comments:						
S H	Pedestals and/or Terracettes					X
Comments:						

S H	Bare Ground				X	
Comments:						
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement					X
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff					X
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups					X
Comments:						
B	Plant Mortality/Decadence					X
Comments:	Low amount of decadence.					
H B	Litter Amount				X	
Comments:						
B	Annual Production				X	
Comments:						
B	Invasive Plants			X		
Comments:	Prickly pear.					
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts				X	

Comments:						
B	Wildlife Habitat					X
Comments:	Grassland habitat with some scatterred shrub species in a spatial arrangement that contributes to habitat diversity. Pasture appears to be lightly utilized.					
B	Wildlife Populations					X
Comments:	Expect pronghorn antelope, mule deer and upland game birds. No specific information for this area.					
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

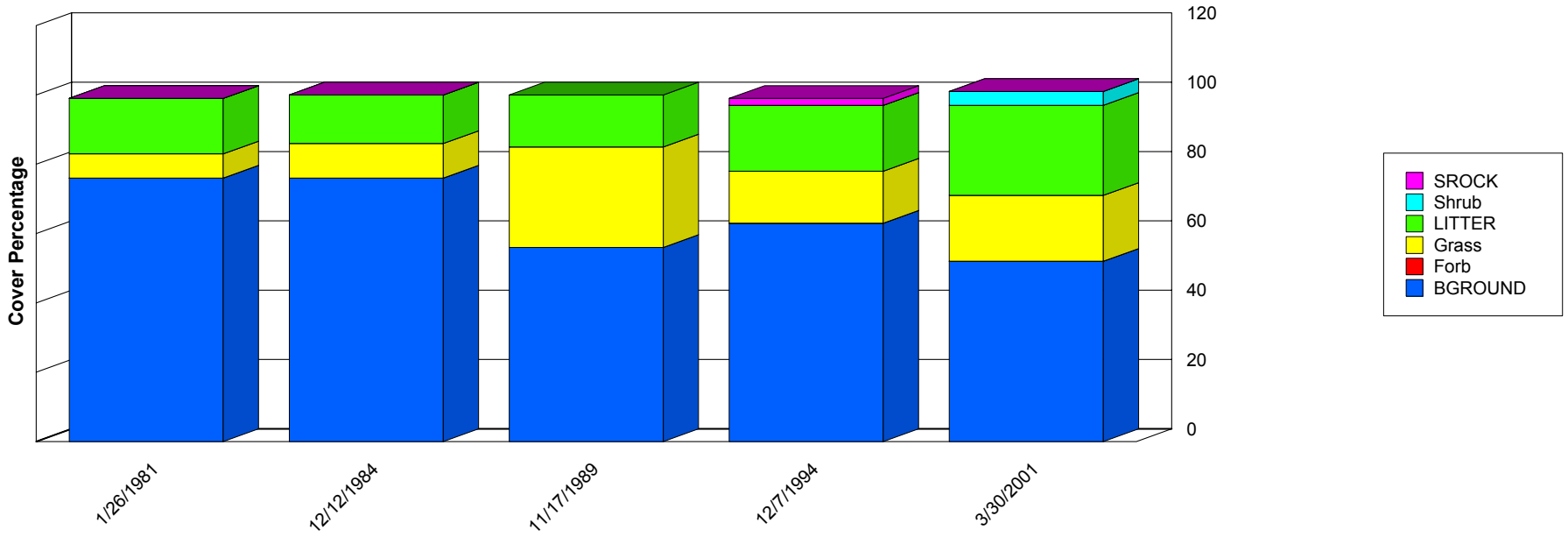
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	4	6
H	Hydrologic	0	0	0	4	7
B	Biotic	0	0	1	4	8

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets

Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	1	12
Site Notes:				

Ground Cover Trends



	1/26/1981	12/12/1984	11/17/1989	12/7/1994	3/30/2001
BGROUND	76.00	76.00	56.00	63.00	52.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	7.00	10.00	29.00	15.00	19.00
LITTER	16.00	14.00	15.00	19.00	26.00
Shrub	0.00	0.00	0.00	0.00	4.00
SROCK	0.00	0.00	0.00	2.00	0.00
Total	99.00	100.00	100.00	99.00	101.00

Report Parameters

SITE NAME LIKE	65069-#1 SPRING-D117
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

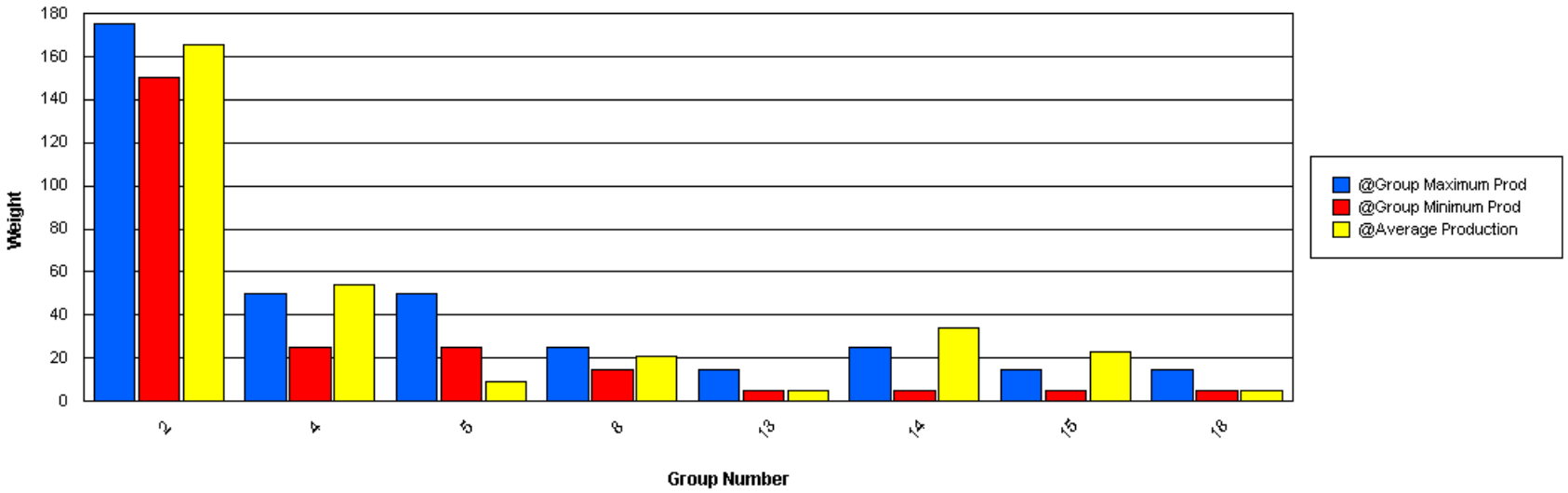
Functional / Structural Groups

Report Parameters

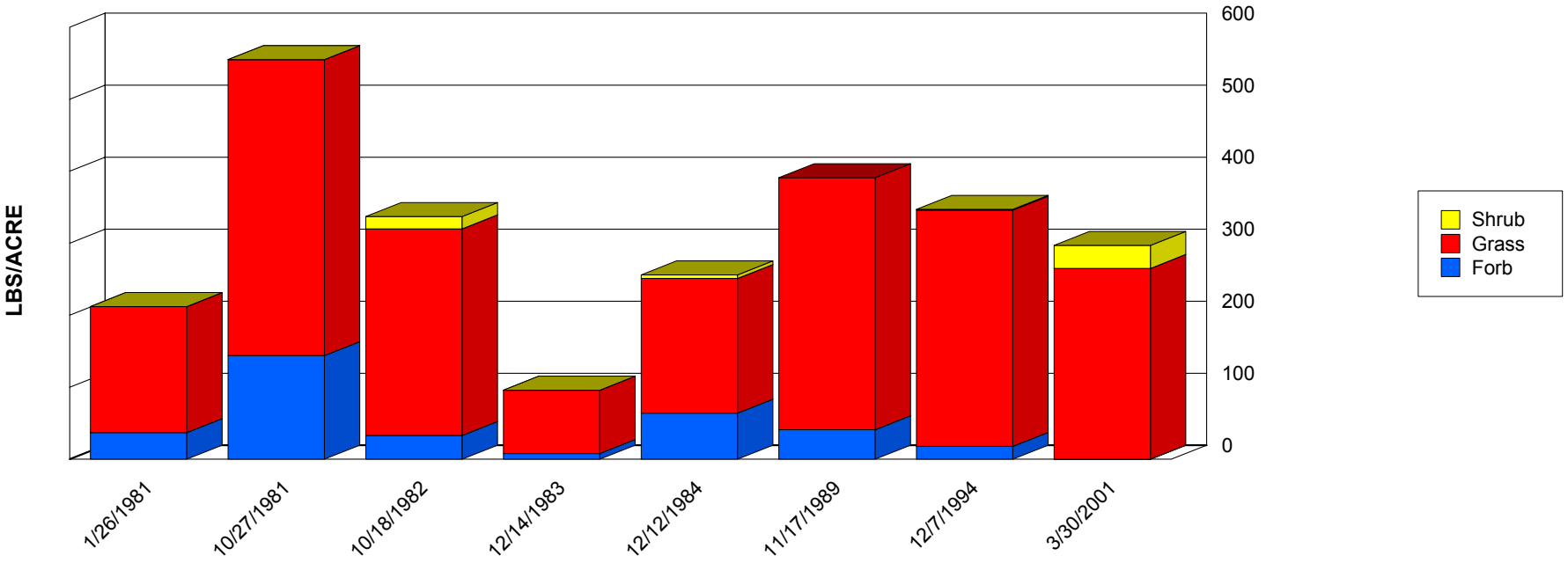
SITE NAME LIKE	65069-#1 SPRING-D117
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2001
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY006NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
2	Grass	BOBR	150	175	0.00	282.00	122.75	82.98
2	Grass	BOER4	150	175	12.00	106.00	42.88	32.82
4	Grass	BOGR2	25	50	0.00	1.00	0.20	0.40
4	Grass	SPCR	25	50	4.00	7.00	5.50	1.50
4	Grass	SPNE	25	50	0.00	90.00	48.13	29.16
5	Grass	ERPU8	25	50	0.00	18.00	4.00	5.95
5	Grass	SCBR2	25	50	2.00	8.00	5.33	2.49
7	Grass	ENDE	5	15	0.00	9.00	1.67	3.30
8	Grass	HIMU2	15	25	0.00	85.00	21.00	28.69
11	Forb	COCA2	25	75	0.00	4.00	0.88	1.36
12	Forb	PSTA	5	25	0.00	12.00	2.00	4.47
13	Forb	GACO	5	15	0.00	6.00	1.20	2.40
13	Forb	OENOT	5	15	0.00	20.00	4.00	8.00
14	Forb	AAFF	5	25	0.00	98.00	25.13	30.82
14	Forb	PECTI	5	25	0.00	35.00	8.75	15.16
15	Forb	HASP2	5	15	0.00	3.00	0.60	1.20
15	Forb	LEMO2	5	15	0.00	11.00	3.17	4.10
15	Forb	MACHA4	5	15	0.00	5.00	0.83	1.86
15	Forb	PPFF	5	15	9.00	24.00	16.50	7.50
15	Forb	SPHAE	5	15	2.00	2.00	2.00	0.00
16	Shrub	EPTO	15	35	0.00	3.00	0.50	1.12
18	Shrub	OPUNT	5	15	0.00	17.00	5.00	7.01

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV



Production Lbs/Acre Trends

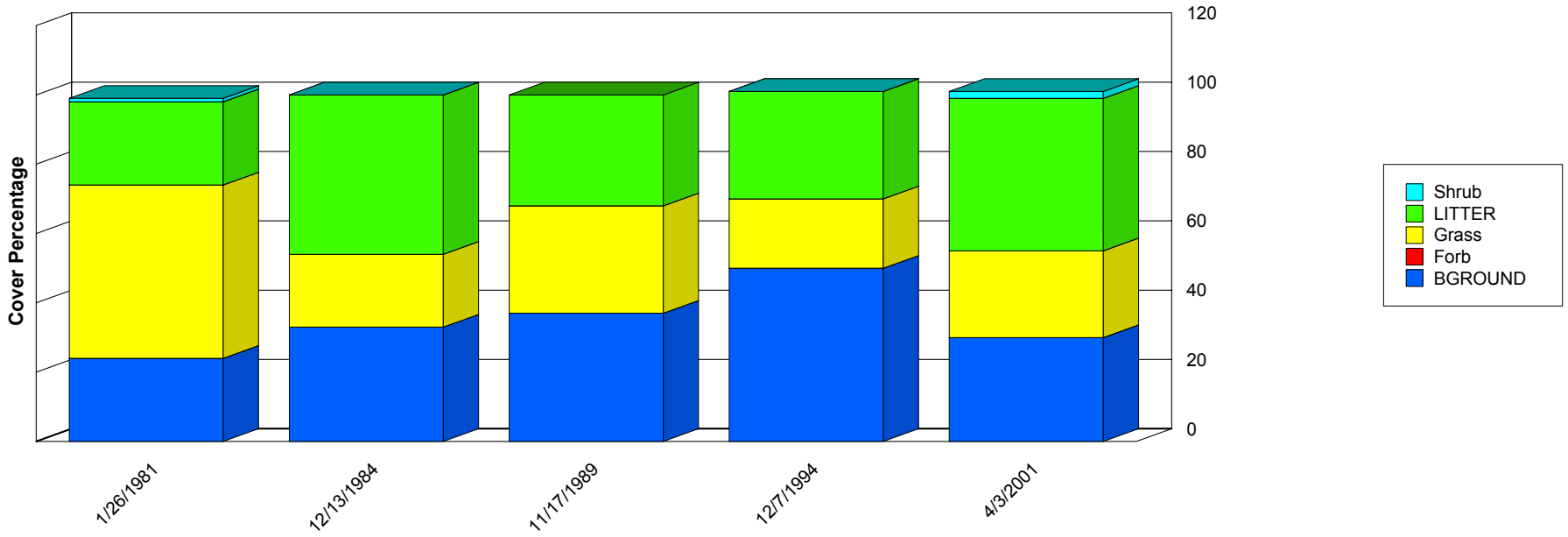


	1/26/1981	10/27/1981	10/18/1982	12/14/1983	12/12/1984	11/17/1989	12/7/1994	3/30/2001
Forb	**37.00**	**144.00**	**33.00**	**8.00**	**64.00**	**41.00**	**18.00**	**0.00**
Grass	**175.00**	**411.00**	**287.00**	**88.00**	**187.00**	**350.00**	**328.00**	**265.00**
Shrub	**0.00**	**0.00**	**17.00**	**0.00**	**5.00**	**0.00**	**1.00**	**32.00**
Total	**212.00**	**555.00**	**337.00**	**96.00**	**256.00**	**391.00**	**347.00**	**297.00**

Report Parameters

SITE NAME LIKE	65069-#1 SPRING-D117
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Ground Cover Trends



	1/26/1981	12/13/1984	11/17/1989	12/7/1994	4/3/2001
BGROUND	24.00	33.00	37.00	50.00	30.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	50.00	21.00	31.00	20.00	25.00
LITTER	24.00	46.00	32.00	31.00	44.00
Shrub	1.00	0.00	0.00	0.00	2.00
Total	99.00	100.00	100.00	101.00	101.00

Report Parameters

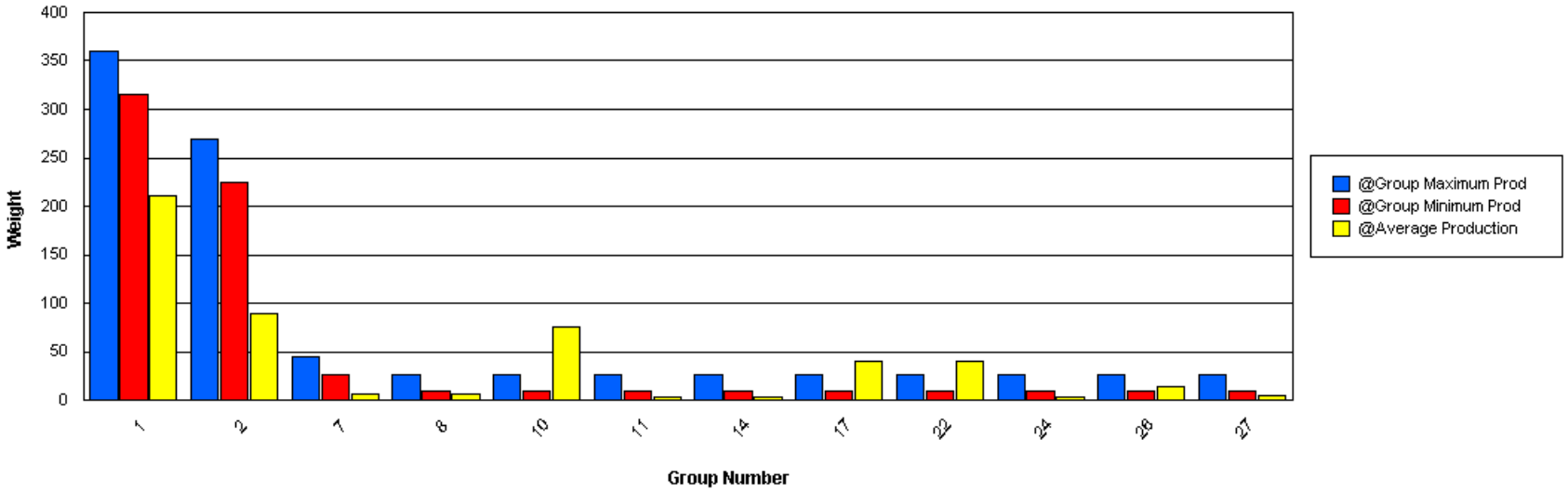
SITE NAME LIKE	65069-#2 WEST #1-D118
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Functional / Structural Groups

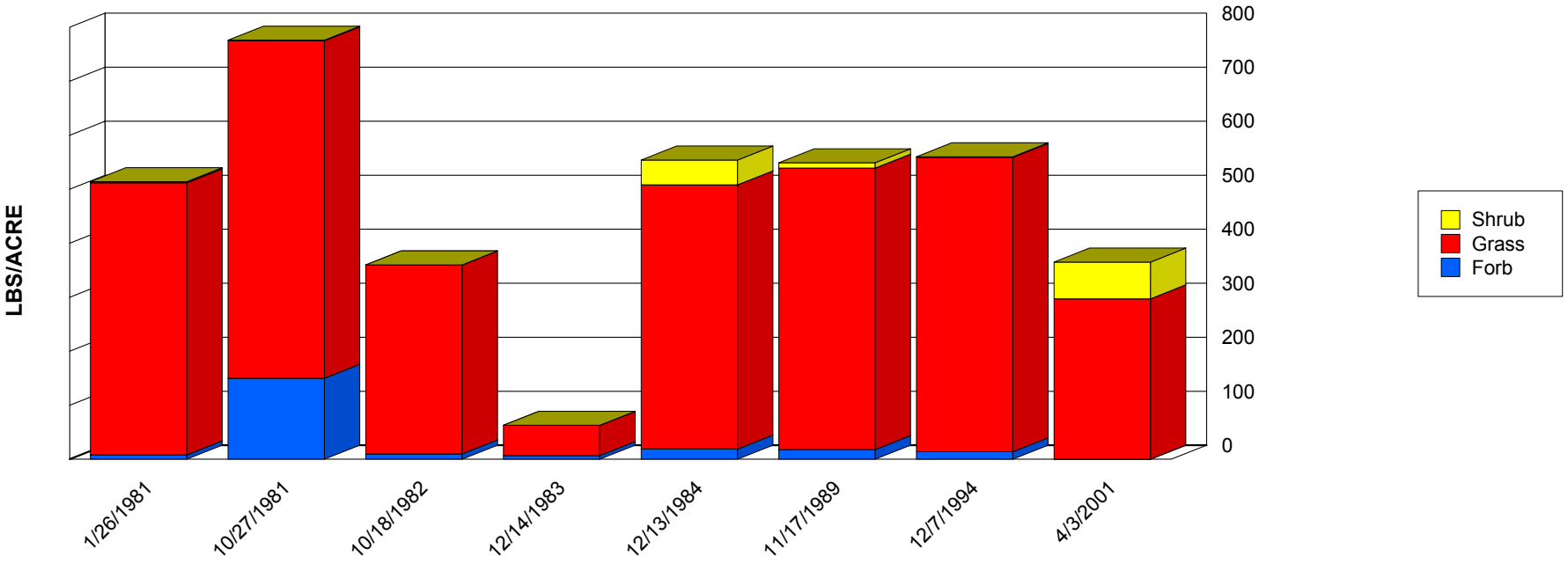
Report Parameters	
SITE NAME LIKE	65069-#2 WEST #1-D118
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2001
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	8.00	383.00	197.75	129.79
1	Grass	SCBR2	315	360	2.00	39.00	13.75	11.29
2	Grass	BOER4	225	270	7.00	179.00	86.38	69.57
2	Grass	BOGR2	225	270	0.00	17.00	3.40	6.80
7	Grass	ARIST	27	45	0.00	3.00	0.71	1.16
7	Grass	SPCR	27	45	0.00	18.00	5.43	5.42
8	Grass	PAOB	9	27	0.00	43.00	7.17	16.03
9	Grass	MUAR	27	45	0.00	7.00	1.63	2.29
9	Grass	MUAR2	27	45	0.00	3.00	0.88	1.17
10	Grass	BOBR	9	27	0.00	334.00	75.86	114.74
11	Grass	ENDE	9	27	0.00	8.00	3.50	3.61
12	Grass	PAHA	9	18	0.00	6.00	2.38	2.06
14	Grass	TRMU	9	27	0.00	9.00	3.00	4.24
15	Grass	TRPI2	0	9	0.00	1.00	0.20	0.40
16	Grass	AAGG	9	27	0.00	8.00	2.80	3.49
17	Grass	ERPU8	9	27	0.00	13.00	3.50	4.57
17	Grass	SPNE	9	27	13.00	112.00	36.17	35.29
18	Forb	SPHAE	9	27	0.00	2.00	0.57	0.73
21	Forb	LEMO2	9	27	0.00	3.00	0.80	1.17
22	Forb	AAFF	9	27	0.00	19.00	10.50	6.02
22	Forb	PECTI	9	27	0.00	122.00	30.50	52.83
24	Forb	COHI	9	27	0.00	6.00	1.50	2.60
24	Forb	PPFF	9	27	1.00	2.00	1.50	0.50
26	Shrub	GUSA2	9	27	0.00	19.00	3.33	7.02
26	Shrub	OPUNT	9	27	0.00	67.00	10.43	23.11
27	Shrub	COCA17	9	27	0.00	27.00	4.50	10.06

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV



Production Lbs/Acre Trends

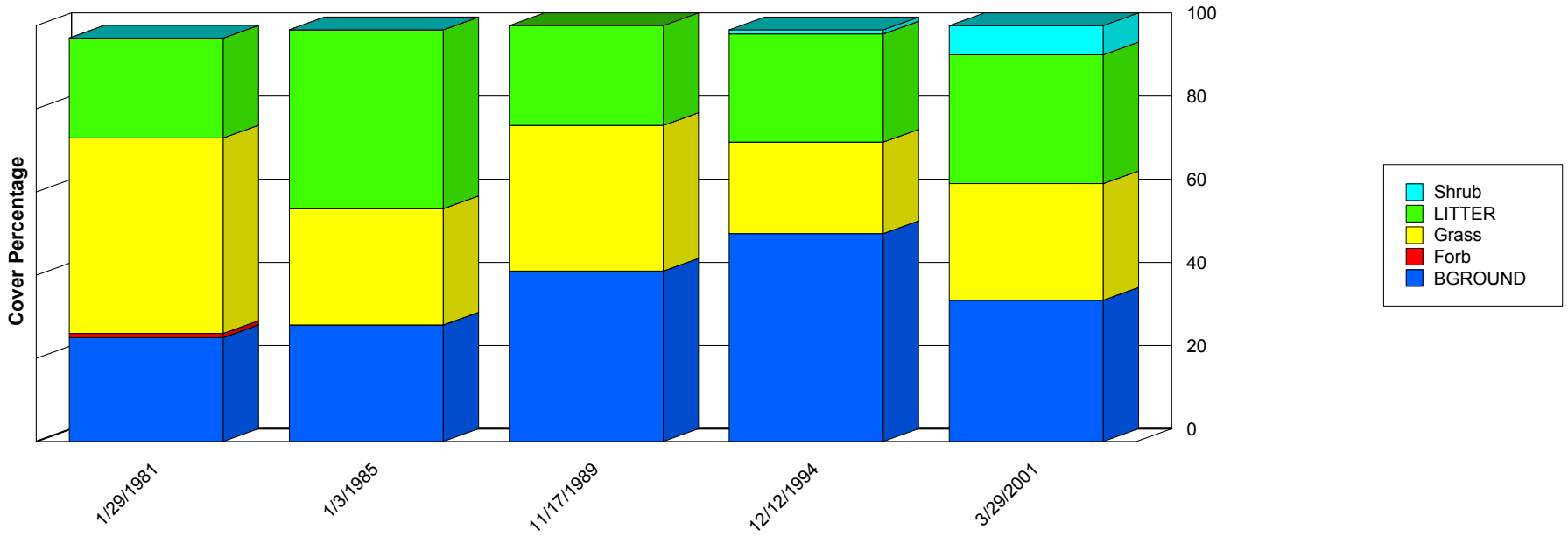


	1/26/1981	10/27/1981	10/18/1982	12/14/1983	12/13/1984	11/17/1989	12/7/1994	4/3/2001
Forb	**8.00**	**150.00**	**10.00**	**7.00**	**19.00**	**18.00**	**14.00**	**0.00**
Grass	**504.00**	**625.00**	**350.00**	**56.00**	**489.00**	**521.00**	**545.00**	**297.00**
Shrub	**2.00**	**1.00**	**0.00**	**0.00**	**46.00**	**10.00**	**1.00**	**68.00**
Total	**514.00**	**776.00**	**360.00**	**63.00**	**554.00**	**549.00**	**560.00**	**365.00**

Report Parameters

SITE NAME LIKE	65069-#2 WEST #1-D118
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Ground Cover Trends



	1/29/1981	1/3/1985	11/17/1989	12/12/1994	3/29/2001
BGROUND	25.00	28.00	41.00	50.00	34.00
Forb	1.00	0.00	0.00	0.00	0.00
Grass	47.00	28.00	35.00	22.00	28.00
LITTER	24.00	43.00	24.00	26.00	31.00
Shrub	0.00	0.00	0.00	1.00	7.00
Total	97.00	99.00	100.00	99.00	100.00

Report Parameters

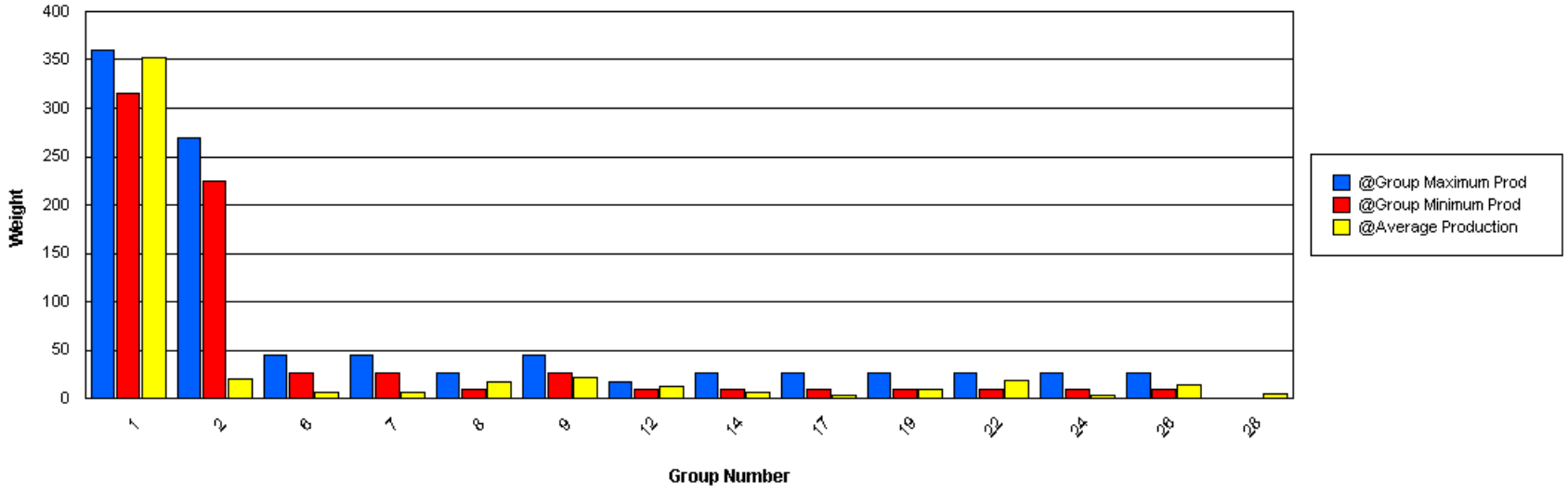
SITE NAME LIKE	65069-#2 WEST #2-D119
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Functional / Structural Groups

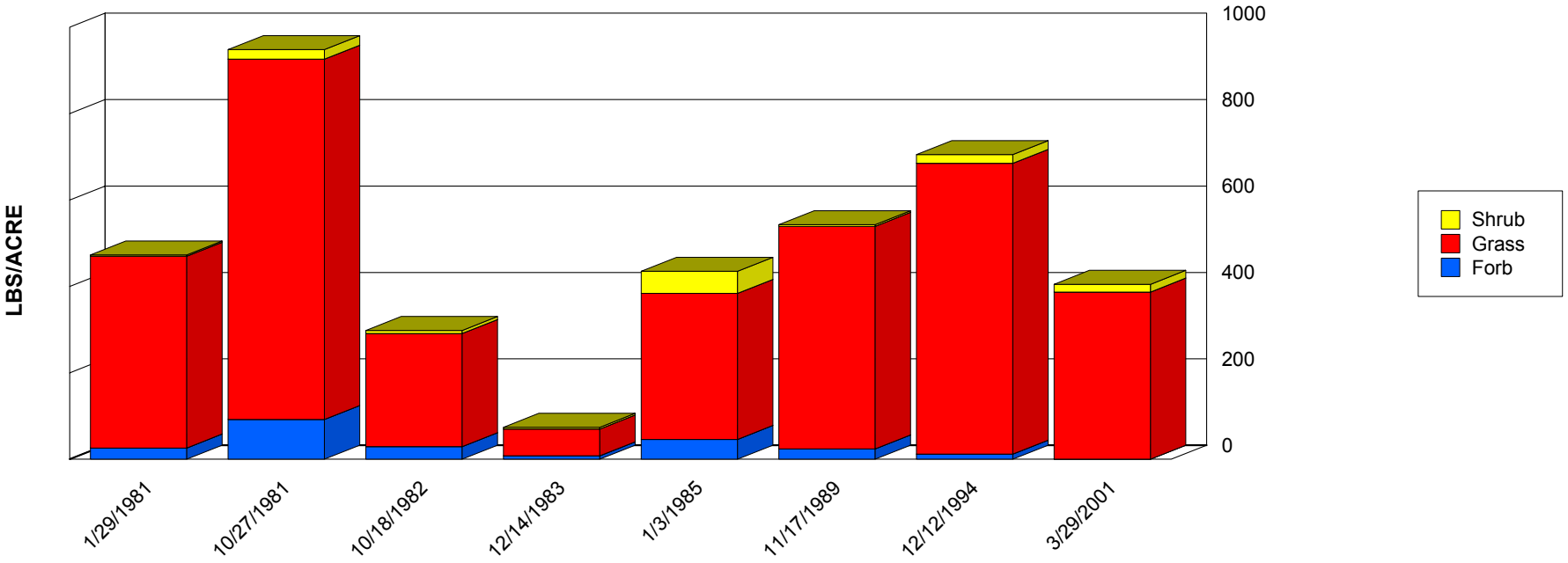
Report Parameters	
SITE NAME LIKE	65069-#2 WEST #2-D119
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2001
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	41.00	594.00	305.50	182.02
1	Grass	SCBR2	315	360	19.00	71.00	46.50	18.79
2	Grass	BOER4	225	270	0.00	78.00	20.38	23.47
2	Grass	BOGR2	225	270	0.00	1.00	0.25	0.43
6	Grass	SPAI	27	45	0.00	17.00	6.00	7.46
7	Grass	ARIST	27	45	0.00	7.00	2.67	2.43
7	Grass	SPCR	27	45	0.00	15.00	4.50	5.00
8	Grass	PAOB	9	27	0.00	56.00	17.13	18.46
9	Grass	MUAR	27	45	0.00	26.00	10.75	8.98
9	Grass	MUAR2	27	45	0.00	35.00	11.00	13.98
11	Grass	ENDE	9	27	0.00	1.00	0.20	0.40
12	Grass	PAHA	9	18	0.00	56.00	13.00	18.25
14	Grass	TRMU	9	27	0.00	26.00	6.60	9.87
15	Grass	TRPI2	0	9	0.00	1.00	0.17	0.37
17	Grass	ERPU8	9	27	0.00	5.00	1.33	1.80
17	Grass	SPNE	9	27	0.00	17.00	2.83	6.34
18	Forb	SPHAE	9	27	0.00	5.00	1.00	1.83
19	Forb	CROTO	9	27	0.00	17.00	7.75	6.48
19	Forb	PENA	9	27	0.00	8.00	2.25	2.44
21	Forb	ERTE13	9	27	0.00	1.00	0.40	0.49
21	Forb	LEMO2	9	27	0.00	6.00	2.00	2.53
22	Forb	AAFF	9	27	0.00	32.00	10.50	10.30
22	Forb	PECTI	9	27	0.00	26.00	6.50	11.26
22	Forb	SAKA	9	27	0.00	6.00	1.20	2.40
23	Forb	AMBRO	9	27	0.00	2.00	0.40	0.80
24	Forb	CIOC	9	27	0.00	12.00	2.80	4.66

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
24	Forb	SOEL	9	27	0.00	2.00	0.83	0.69
26	Shrub	GUSA2	9	27	0.00	34.00	8.57	10.90
26	Shrub	OPUNT	9	27	0.00	17.00	5.50	5.83
28	Shrub	PRGL2	0	0	0.00	17.00	4.25	7.36



Production Lbs/Acre Trends

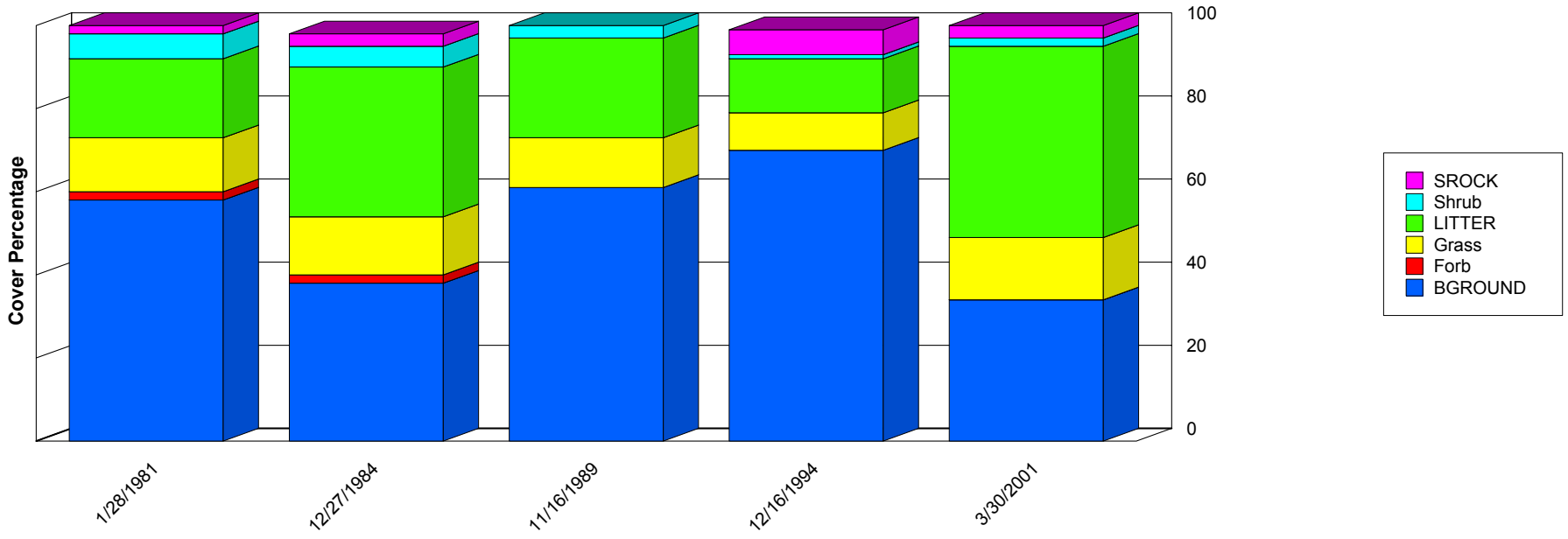


	1/29/1981	10/27/1981	10/18/1982	12/14/1983	1/3/1985	11/17/1989	12/12/1994	3/29/2001
Forb	**26.00**	**92.00**	**29.00**	**8.00**	**46.00**	**24.00**	**12.00**	**0.00**
Grass	**444.00**	**834.00**	**262.00**	**62.00**	**338.00**	**515.00**	**673.00**	**387.00**
Shrub	**3.00**	**22.00**	**7.00**	**4.00**	**51.00**	**4.00**	**20.00**	**18.00**
Total	**473.00**	**948.00**	**298.00**	**74.00**	**435.00**	**543.00**	**705.00**	**405.00**

Report Parameters

SITE NAME LIKE	65069-#2 WEST #2-D119
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Ground Cover Trends



	1/28/1981	12/27/1984	11/16/1989	12/16/1994	3/30/2001
BGROUND	58.00	38.00	61.00	70.00	34.00
Forb	2.00	2.00	0.00	0.00	0.00
Grass	13.00	14.00	12.00	9.00	15.00
LITTER	19.00	36.00	24.00	13.00	46.00
Shrub	6.00	5.00	3.00	1.00	2.00
SROCK	2.00	3.00	0.00	6.00	3.00
Total	100.00	98.00	100.00	99.00	100.00

Report Parameters

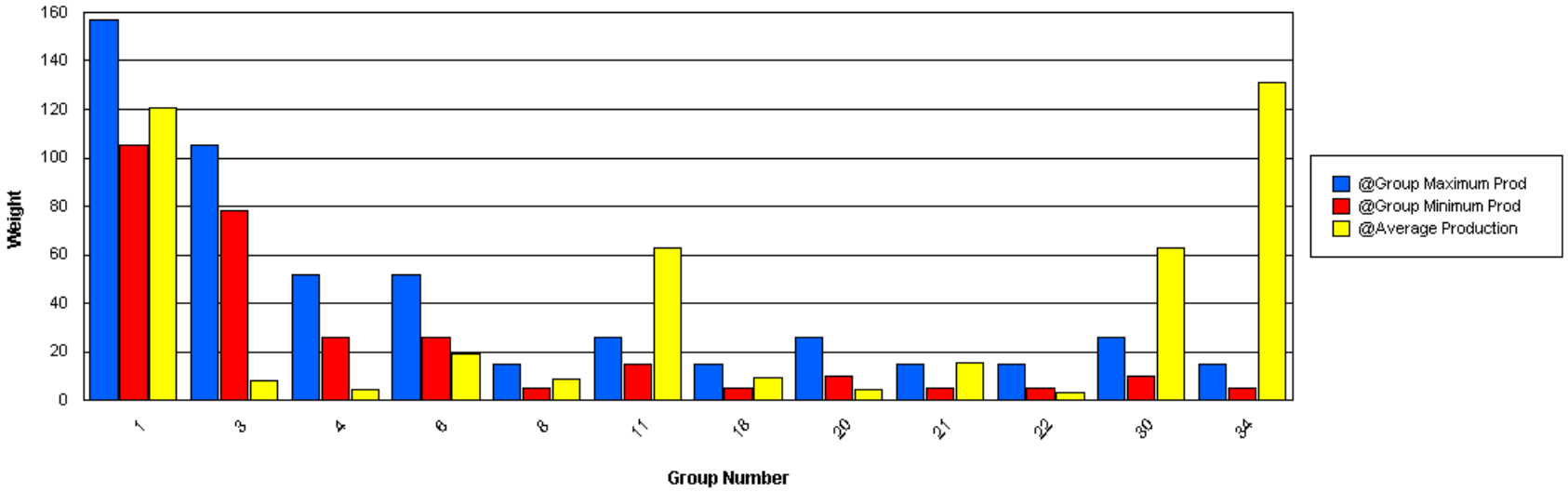
SITE NAME LIKE	65069-#4 EAST #1-D121
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Functional / Structural Groups

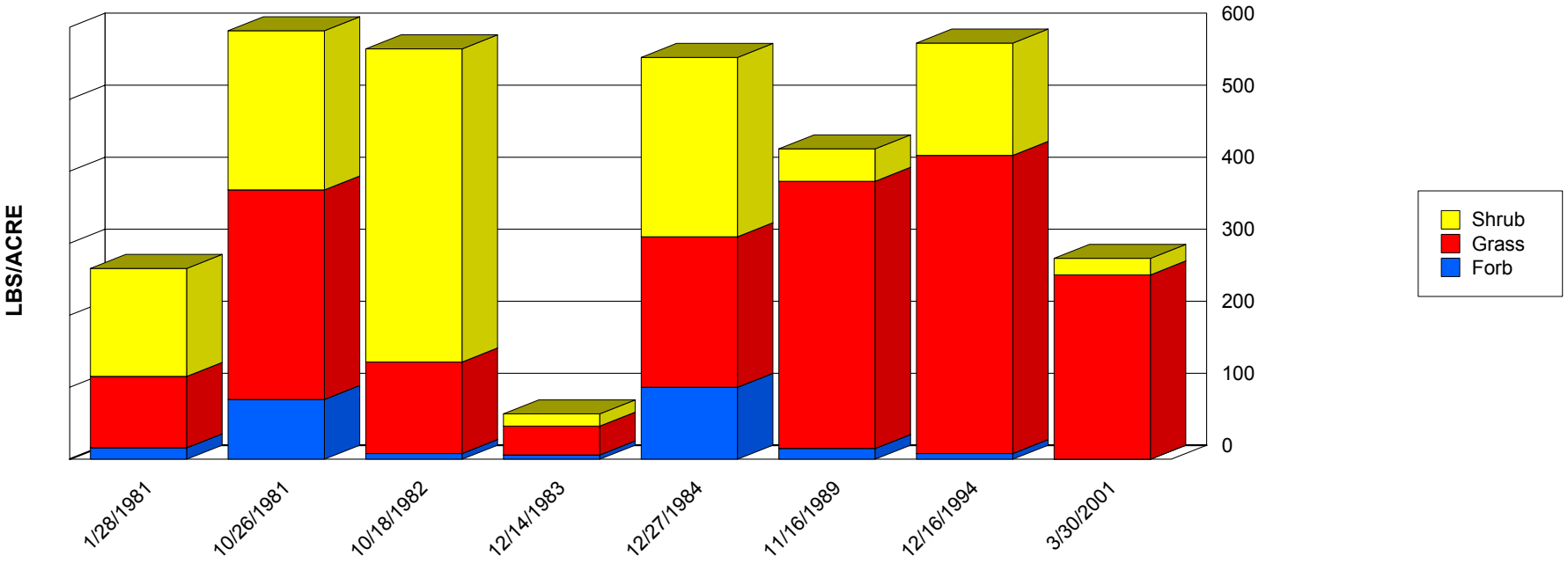
Report Parameters	
SITE NAME LIKE	65069-#4 EAST #1-D121
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2001
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	20.00	278.00	120.75	81.29
3	Grass	BOGR2	78	105	1.00	22.00	8.00	9.90
4	Grass	MUPO2	26	52	0.00	16.00	4.50	5.12
6	Grass	SPCR	26	52	2.00	48.00	19.50	15.56
8	Grass	MUAR	5	15	0.00	34.00	8.50	10.51
10	Grass	ERPU8	5	15	0.00	6.00	1.33	2.13
11	Grass	ARIST	15	26	0.00	9.00	1.86	3.04
11	Grass	HIMU2	15	26	0.00	66.00	25.50	23.17
11	Grass	MUAR2	15	26	0.00	28.00	14.50	11.78
11	Grass	SCBR2	15	26	8.00	31.00	21.25	7.00
14	Grass	PAHA	5	15	0.00	5.00	1.17	1.86
14	Grass	SPAS	5	15	0.00	7.00	1.40	2.80
17	Forb	SPHAE	5	15	0.00	3.00	0.60	1.20
18	Forb	LESQU	5	15	0.00	37.00	9.50	14.30
19	Forb	CASSI	5	15	0.00	6.00	1.50	2.60
20	Forb	CROTO	10	26	0.00	11.00	4.63	3.77
21	Forb	AAFF	5	15	0.00	46.00	12.88	16.42
21	Forb	PECTI	5	15	0.00	7.00	1.75	3.03
21	Forb	XADR	5	15	0.00	4.00	0.67	1.49
22	Forb	CHAMA8	5	15	0.00	3.00	0.60	1.20
22	Forb	CRJA2	5	15	0.00	1.00	0.20	0.40
22	Forb	LEMO2	5	15	0.00	1.00	0.17	0.37
22	Forb	PENA	5	15	0.00	2.00	0.86	0.64
22	Forb	SOEL	5	15	0.00	5.00	1.60	2.06
30	Shrub	PRGL2	10	26	0.00	154.00	63.00	57.22
32	Shrub	OPUNT	5	15	0.00	3.00	0.71	1.16

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
34	Shrub	GUSA2	5	15	8.00	372.00	131.17	128.49



Production Lbs/Acre Trends

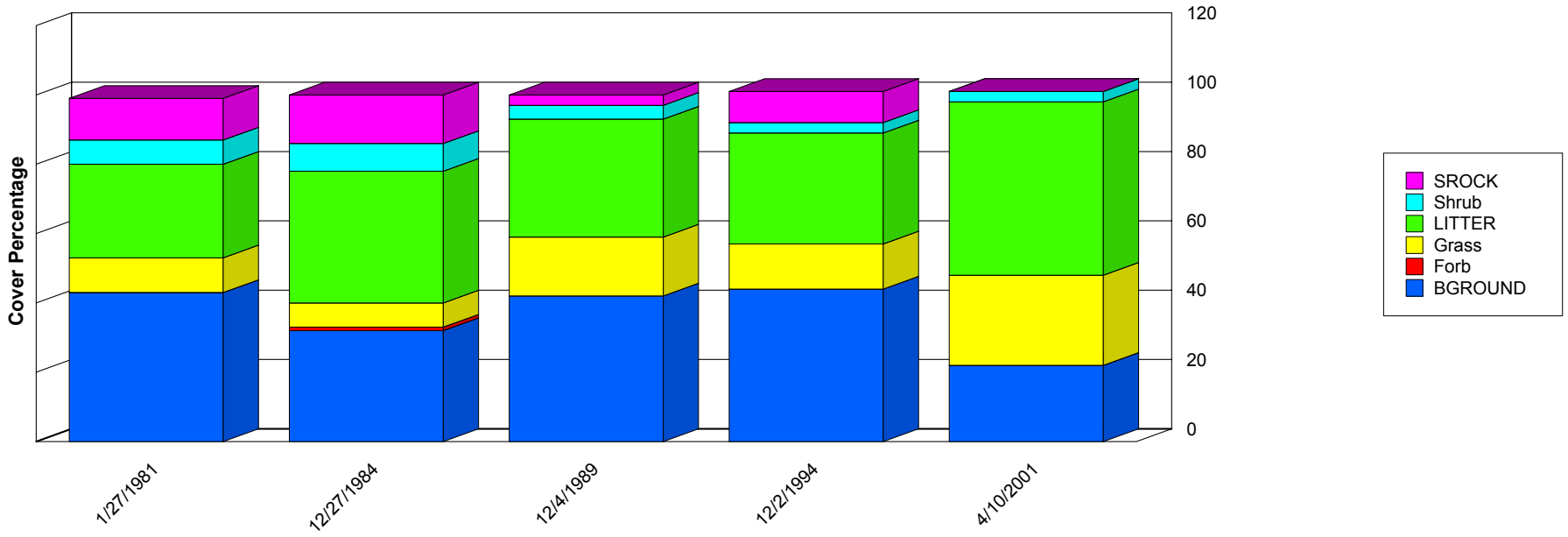


	1/28/1981	10/26/1981	10/18/1982	12/14/1983	12/27/1984	11/16/1989	12/16/1994	3/30/2001
Forb	**16.00**	**83.00**	**8.00**	**6.00**	**100.00**	**15.00**	**8.00**	**0.00**
Grass	**99.00**	**291.00**	**127.00**	**40.00**	**209.00**	**371.00**	**414.00**	**256.00**
Shrub	**150.00**	**221.00**	**435.00**	**17.00**	**249.00**	**45.00**	**156.00**	**23.00**
Total	**265.00**	**595.00**	**570.00**	**63.00**	**558.00**	**431.00**	**578.00**	**279.00**

Report Parameters

SITE NAME LIKE	65069-#4 EAST #1-D121
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Ground Cover Trends



	1/27/1981	12/27/1984	12/4/1989	12/2/1994	4/10/2001
BGROUND	43.00	32.00	42.00	44.00	22.00
Forb	0.00	1.00	0.00	0.00	0.00
Grass	10.00	7.00	17.00	13.00	26.00
LITTER	27.00	38.00	34.00	32.00	50.00
Shrub	7.00	8.00	4.00	3.00	3.00
SROCK	12.00	14.00	3.00	9.00	0.00
Total	99.00	100.00	100.00	101.00	101.00

Report Parameters

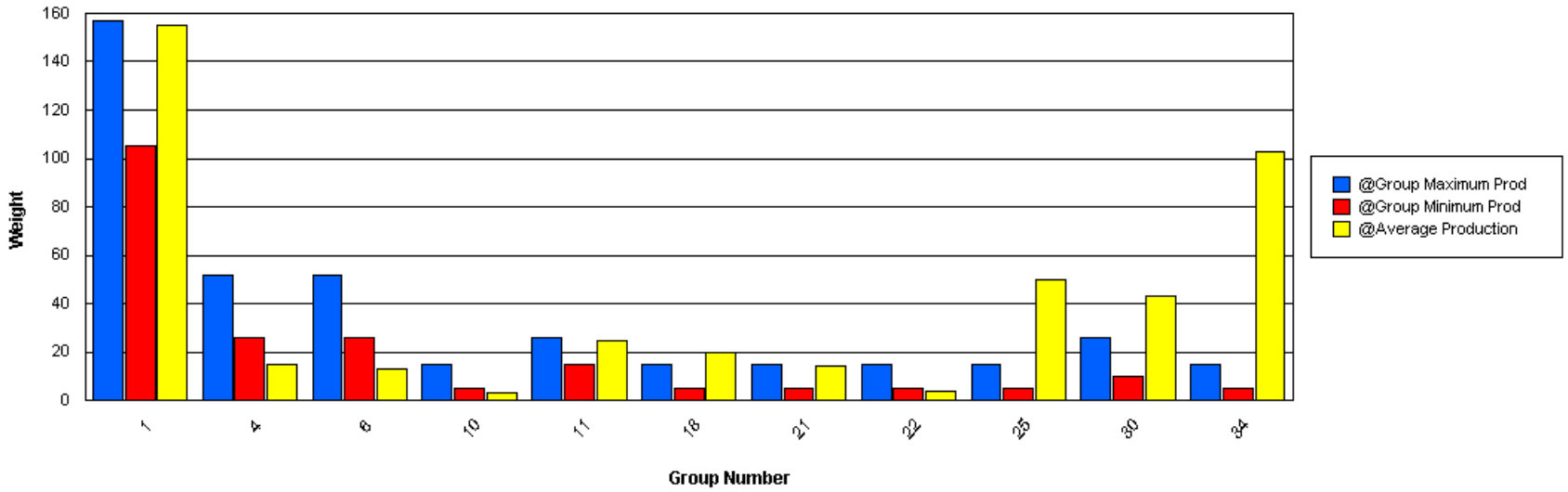
SITE NAME LIKE	65069-#4 EAST #2-D122
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Functional / Structural Groups

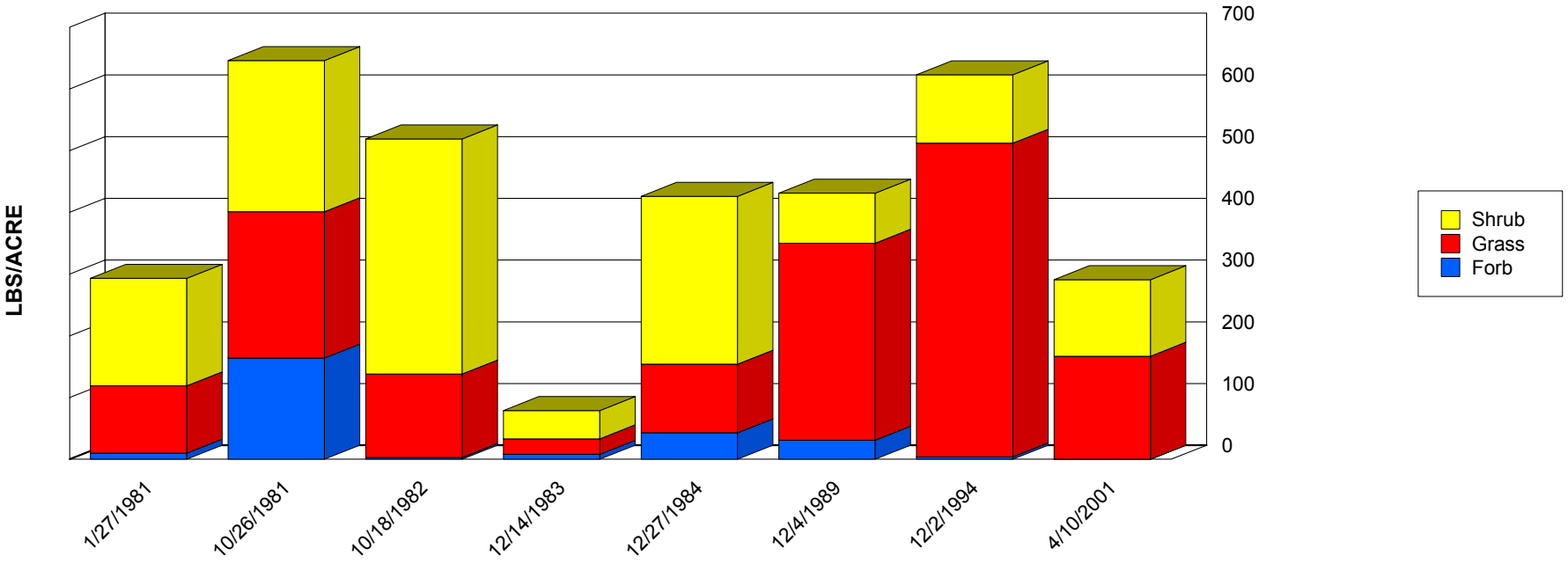
Report Parameters	
SITE NAME LIKE	65069-#4 EAST #2-D122
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2001
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	5.00	478.00	155.00	138.63
4	Grass	MUPO2	26	52	0.00	46.00	15.13	15.30
6	Grass	SPCR	26	52	0.00	29.00	13.00	9.67
8	Grass	MUAR	5	15	0.00	4.00	1.13	1.36
10	Grass	ERPU8	5	15	0.00	10.00	3.00	3.16
11	Grass	ARIST	15	26	1.00	11.00	6.00	5.00
11	Grass	HIMU2	15	26	8.00	12.00	10.00	2.00
11	Grass	MUAR2	15	26	0.00	19.00	4.25	5.85
11	Grass	SCBR2	15	26	0.00	12.00	4.00	4.06
11	Grass	SPCO4	15	26	0.00	2.00	0.40	0.80
14	Grass	ENDE	5	15	0.00	3.00	0.67	1.11
18	Forb	LESQU	5	15	0.00	97.00	19.83	35.43
20	Forb	CROTO	10	26	0.00	6.00	1.57	2.26
21	Forb	AAFF	5	15	0.00	48.00	12.63	16.01
21	Forb	XADR	5	15	0.00	9.00	1.50	3.35
22	Forb	CHAMA8	5	15	0.00	2.00	0.40	0.80
22	Forb	CRJA2	5	15	0.00	0.00	0.00	0.00
22	Forb	LEMO2	5	15	0.00	6.00	1.33	2.21
22	Forb	PENA	5	15	0.00	2.00	1.20	0.98
22	Forb	SOEL	5	15	0.00	5.00	1.20	1.94
25	Shrub	LADI2	5	15	0.00	90.00	50.13	35.85
30	Shrub	PRGL2	10	26	0.00	105.00	43.00	39.50
34	Shrub	GUSA2	5	15	2.00	314.00	103.00	102.75

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV



Production Lbs/Acre Trends

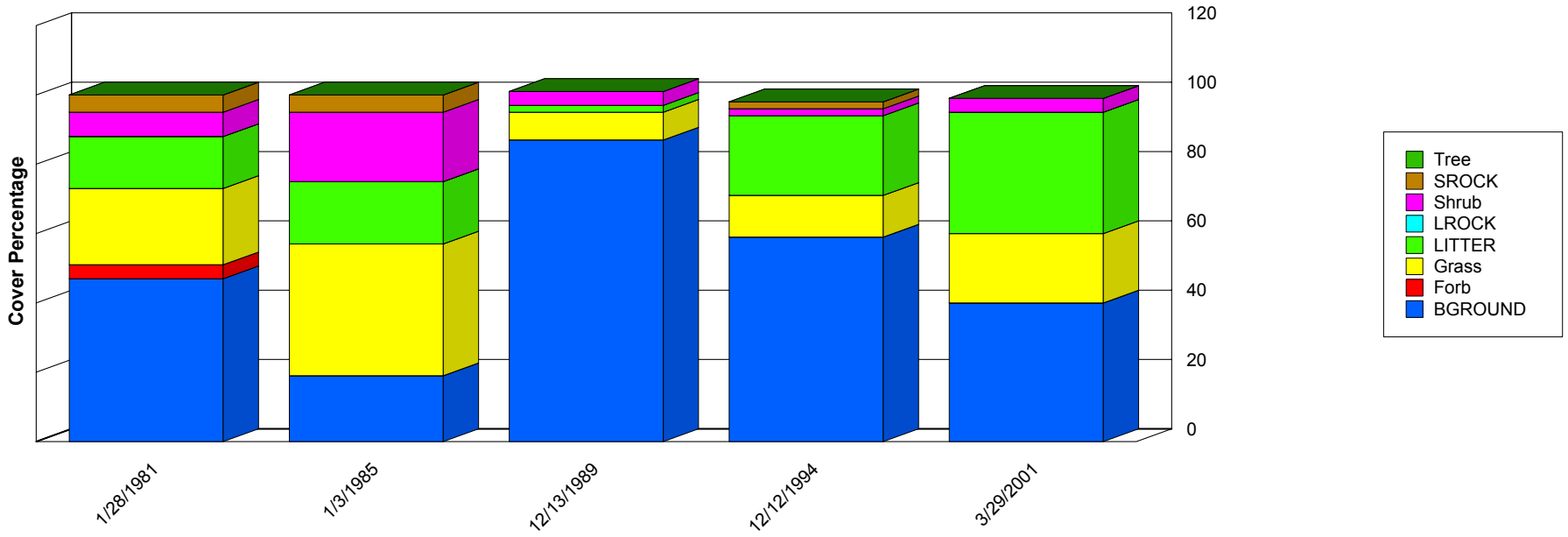


	1/27/1981	10/26/1981	10/18/1982	12/14/1983	12/27/1984	12/4/1989	12/2/1994	4/10/2001
Forb	**10.00**	**164.00**	**3.00**	**8.00**	**43.00**	**31.00**	**4.00**	**0.00**
Grass	**109.00**	**237.00**	**135.00**	**25.00**	**111.00**	**319.00**	**508.00**	**167.00**
Shrub	**174.00**	**245.00**	**381.00**	**46.00**	**272.00**	**81.00**	**111.00**	**124.00**
Total	**293.00**	**646.00**	**519.00**	**79.00**	**426.00**	**431.00**	**623.00**	**291.00**

Report Parameters

SITE NAME LIKE	65069-#4 EAST #2-D122
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Ground Cover Trends



	1/28/1981	1/3/1985	12/13/1989	12/12/1994	3/29/2001
BGROUND	47.00	19.00	87.00	59.00	40.00
Forb	4.00	0.00	0.00	0.00	0.00
Grass	22.00	38.00	8.00	12.00	20.00
LITTER	15.00	18.00	2.00	23.00	35.00
LROCK	0.00	0.00	0.00	0.00	0.00
Shrub	7.00	20.00	4.00	2.00	4.00
SROCK	5.00	5.00	0.00	2.00	0.00
Tree	0.00	0.00	0.00	0.00	0.00
Total	100.00	100.00	101.00	98.00	99.00

Report Parameters

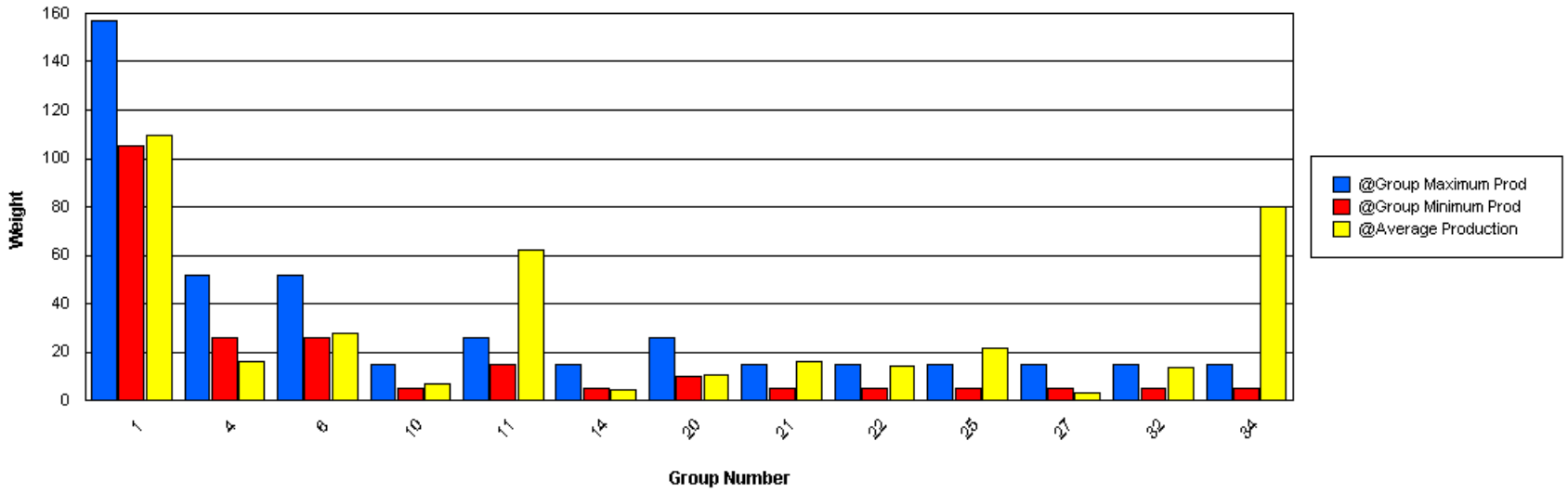
SITE NAME LIKE	65069-#6 WADE-D124
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Functional / Structural Groups

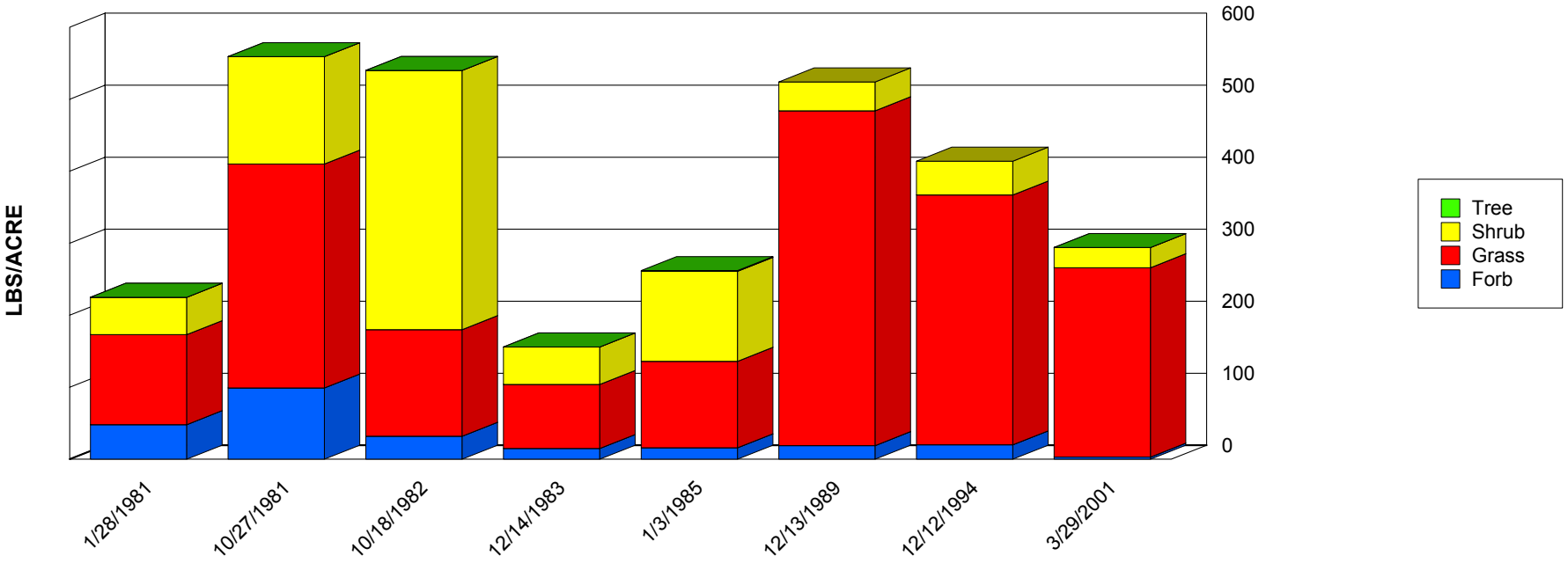
Report Parameters	
SITE NAME LIKE	65069-#6 WADE-D124
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2001
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	11.00	231.00	109.38	76.48
3	Grass	BOGR2	78	105	0.00	7.00	2.50	2.65
4	Grass	MUPO2	26	52	0.00	61.00	16.00	20.98
6	Grass	SPCR	26	52	5.00	77.00	27.25	23.27
6	Grass	SPFL2	26	52	0.00	4.00	0.80	1.60
7	Grass	TRPI2	15	26	0.00	1.00	0.20	0.40
8	Grass	MUAR	5	15	0.00	6.00	2.38	2.23
10	Grass	ERPU8	5	15	0.00	33.00	7.13	10.51
11	Grass	ANHA	15	26	0.00	3.00	0.75	1.30
11	Grass	ARIST	15	26	0.00	56.00	17.63	20.44
11	Grass	HIMU2	15	26	0.00	68.00	25.00	23.90
11	Grass	MUAR2	15	26	0.00	18.00	9.38	6.32
11	Grass	SCBR2	15	26	0.00	21.00	9.25	6.85
12	Grass	MUSQ	0	5	0.00	1.00	0.17	0.37
14	Grass	ENDE	5	15	0.00	3.00	0.83	1.07
14	Grass	PAHA	5	15	0.00	8.00	3.38	2.45
14	Grass	SPAS	5	15	0.00	1.00	0.20	0.40
18	Forb	LESQU	5	15	0.00	7.00	1.86	2.53
20	Forb	CROTO	10	26	0.00	17.00	6.14	5.25
20	Forb	CRPO5	10	26	0.00	1.00	0.17	0.37
20	Forb	DYAC	10	26	3.00	7.00	4.33	1.89
21	Forb	AAFF	5	15	0.00	40.00	8.88	12.12
21	Forb	PORTU	5	15	0.00	29.00	7.25	12.56
22	Forb	CHAMA8	5	15	0.00	1.00	0.20	0.40
22	Forb	COCA2	5	15	0.00	31.00	5.33	11.48
22	Forb	CRJA2	5	15	0.00	2.00	0.40	0.80

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
22	Forb	DYPE2	5	15	0.00	19.00	4.33	6.80
22	Forb	ERTE13	5	15	0.00	2.00	0.75	0.83
22	Forb	MELE2	5	15	0.00	6.00	2.00	2.24
22	Forb	PENA	5	15	0.00	1.00	0.50	0.50
22	Forb	SOEL	5	15	1.00	1.00	1.00	0.00
25	Shrub	LADI2	5	15	0.00	53.00	21.75	16.17
27	Shrub	COER5	5	15	0.00	9.00	3.25	3.83
32	Shrub	OPUNT	5	15	0.00	34.00	13.40	16.41
34	Shrub	GUSA2	5	15	0.00	273.00	79.86	92.73
35	Tree	YUEL	15	26	0.00	1.00	0.17	0.37
36	Shrub	DAFO	5	15	0.00	3.00	0.50	1.12



Production Lbs/Acre Trends

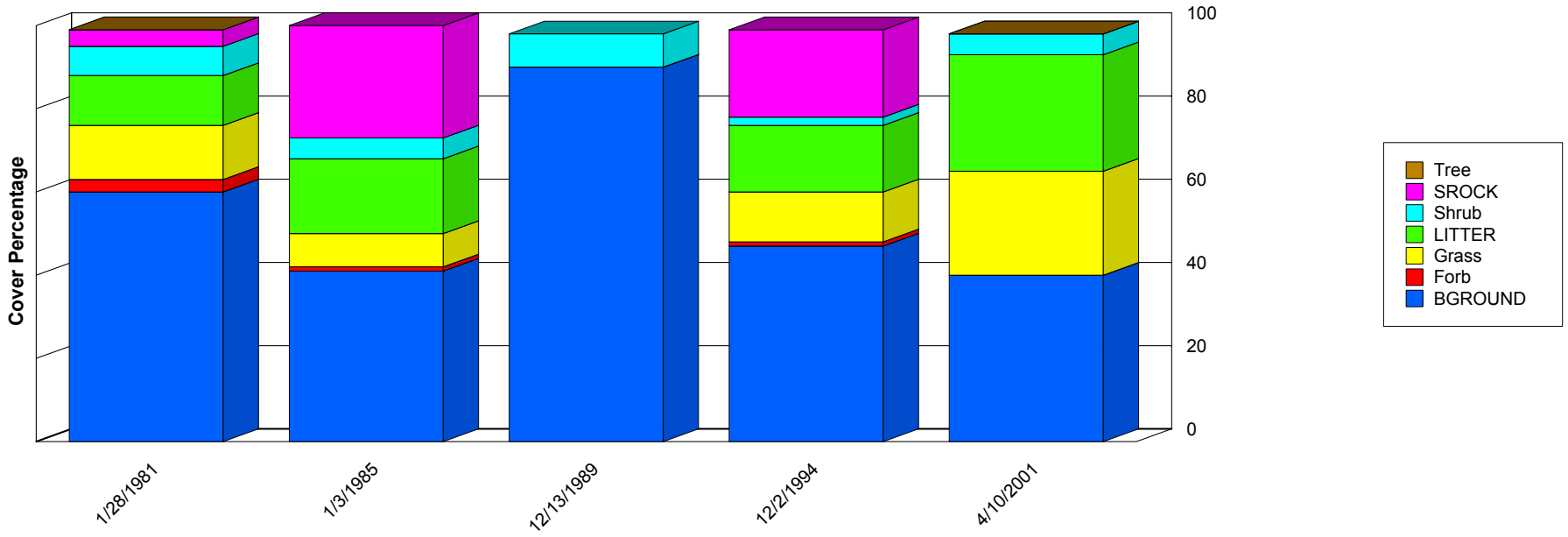


	1/28/1981	10/27/1981	10/18/1982	12/14/1983	1/3/1985	12/13/1989	12/12/1994	3/29/2001
Forb	**48.00**	**99.00**	**32.00**	**15.00**	**16.00**	**19.00**	**20.00**	**3.00**
Grass	**125.00**	**311.00**	**148.00**	**89.00**	**120.00**	**465.00**	**347.00**	**263.00**
Shrub	**52.00**	**149.00**	**360.00**	**52.00**	**125.00**	**40.00**	**47.00**	**28.00**
Tree	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**	**0.00**	**0.00**	**0.00**
Total	**225.00**	**559.00**	**540.00**	**156.00**	**262.00**	**524.00**	**414.00**	**294.00**

Report Parameters

SITE NAME LIKE	65069-#6 WADE-D124
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Ground Cover Trends



	1/28/1981	1/3/1985	12/13/1989	12/2/1994	4/10/2001
BGROUND	60.00	41.00	90.00	47.00	40.00
Forb	3.00	1.00	0.00	1.00	0.00
Grass	13.00	8.00	0.00	12.00	25.00
LITTER	12.00	18.00	0.00	16.00	28.00
Shrub	7.00	5.00	8.00	2.00	5.00
SROCK	4.00	27.00	0.00	21.00	0.00
Tree	0.00	0.00	0.00	0.00	0.00
Total	99.00	100.00	98.00	99.00	98.00

Report Parameters

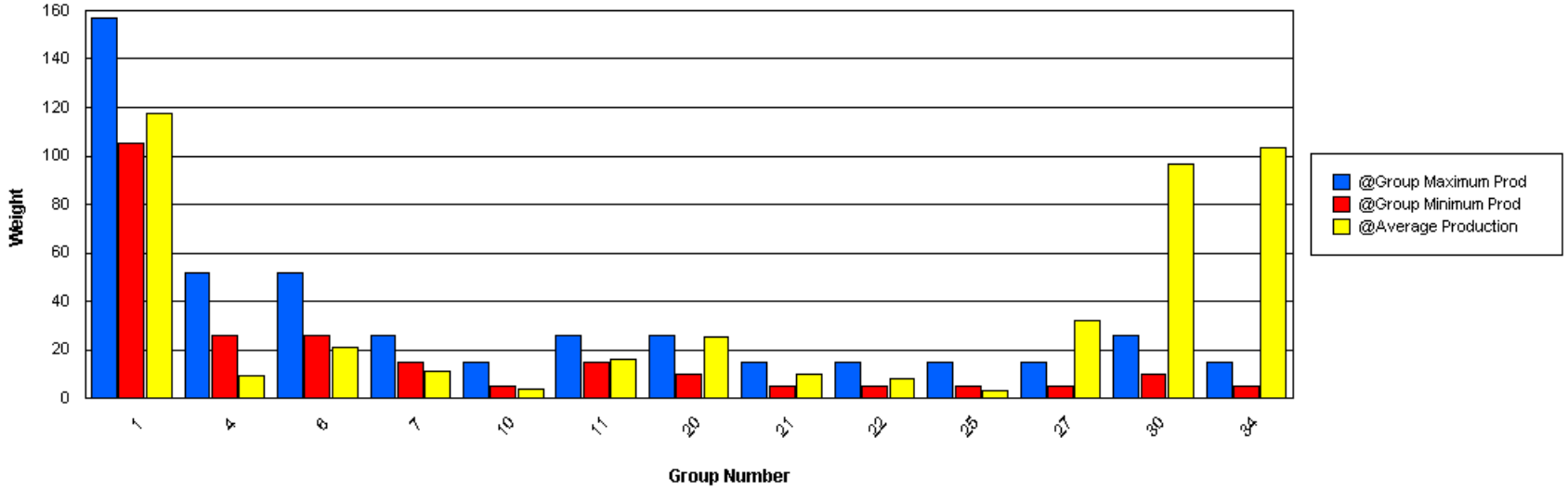
SITE NAME LIKE	65069-#7 ODOM-D125
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Functional / Structural Groups

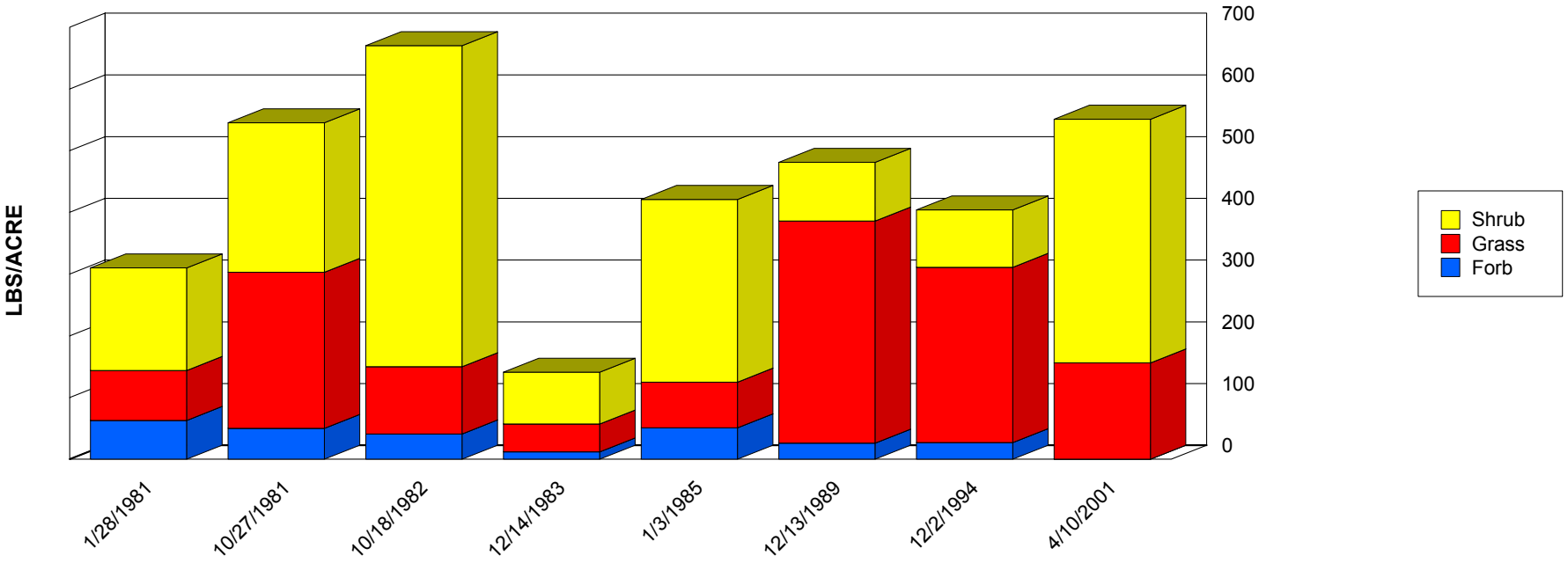
Report Parameters	
SITE NAME LIKE	65069-#7 ODOM-D125
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2001
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	25.00	243.00	117.25	79.93
4	Grass	MUPO2	26	52	0.00	23.00	9.60	9.39
6	Grass	SPCR	26	52	5.00	56.00	19.25	19.79
6	Grass	SPFL2	26	52	0.00	9.00	1.83	3.29
7	Grass	TRIDE	15	26	0.00	5.00	1.25	2.17
7	Grass	TRMU	15	26	1.00	19.00	10.00	9.00
7	Grass	TRPI2	15	26	0.00	1.00	0.20	0.40
10	Grass	ERPU8	5	15	0.00	9.00	4.13	2.52
11	Grass	ARIST	15	26	0.00	32.00	11.13	10.65
11	Grass	MUAR2	15	26	0.00	6.00	2.13	2.09
11	Grass	SCBR2	15	26	0.00	5.00	1.17	1.86
11	Grass	SEMA5	15	26	0.00	5.00	1.50	2.06
14	Grass	ENDE	5	15	0.00	3.00	0.83	1.07
17	Forb	SPCO	5	15	0.00	13.00	2.60	5.20
18	Forb	LESQU	5	15	0.00	6.00	1.40	2.33
20	Forb	CROTO	10	26	0.00	35.00	13.25	11.01
20	Forb	DYAC	10	26	9.00	15.00	12.00	3.00
21	Forb	AAFF	5	15	0.00	20.00	9.88	8.15
22	Forb	CHAMA8	5	15	0.00	1.00	0.20	0.40
22	Forb	COCA2	5	15	0.00	6.00	1.60	2.33
22	Forb	CRJA2	5	15	0.00	1.00	0.20	0.40
22	Forb	DYPE2	5	15	0.00	4.00	1.20	1.60
22	Forb	LEFE	5	15	0.00	4.00	0.67	1.49
22	Forb	MELE2	5	15	0.00	11.00	2.00	4.04
22	Forb	PPFF	5	15	0.00	1.00	0.33	0.47
22	Forb	SOEL	5	15	0.00	6.00	1.75	2.49

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
25	Shrub	LADI2	5	15	0.00	7.00	3.50	3.04
27	Shrub	COER5	5	15	0.00	54.00	32.25	19.45
30	Shrub	PRGL2	10	26	0.00	336.00	96.63	127.84
34	Shrub	GUSA2	5	15	1.00	282.00	103.25	105.61
36	Shrub	DAFO	5	15	0.00	4.00	0.86	1.36



Production Lbs/Acre Trends

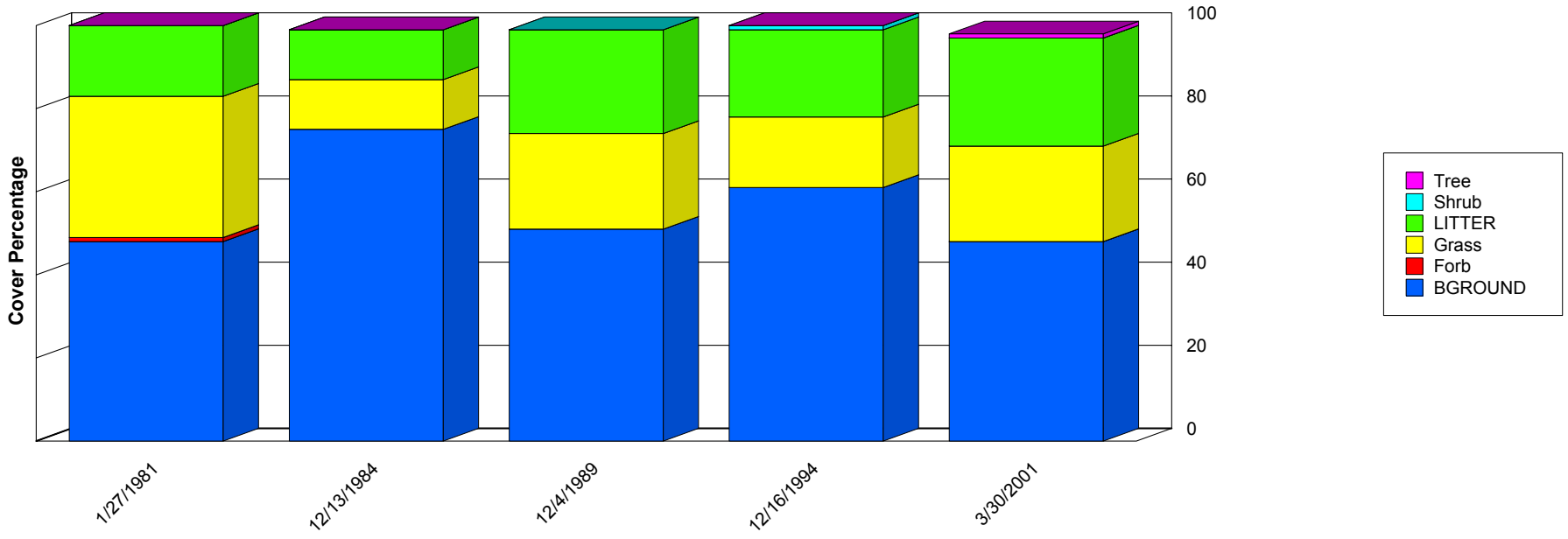


	1/28/1981	10/27/1981	10/18/1982	12/14/1983	1/3/1985	12/13/1989	12/2/1994	4/10/2001
Forb	**63.00**	**50.00**	**41.00**	**12.00**	**51.00**	**26.00**	**27.00**	**0.00**
Grass	**81.00**	**253.00**	**109.00**	**45.00**	**74.00**	**360.00**	**284.00**	**156.00**
Shrub	**166.00**	**242.00**	**520.00**	**84.00**	**296.00**	**95.00**	**93.00**	**395.00**
Total	**310.00**	**545.00**	**670.00**	**141.00**	**421.00**	**481.00**	**404.00**	**551.00**

Report Parameters

SITE NAME LIKE	65069-#7 ODOM-D125
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Ground Cover Trends



	1/27/1981	12/13/1984	12/4/1989	12/16/1994	3/30/2001
BGROUND	48.00	75.00	51.00	61.00	48.00
Forb	1.00	0.00	0.00	0.00	0.00
Grass	34.00	12.00	23.00	17.00	23.00
LITTER	17.00	12.00	25.00	21.00	26.00
Shrub	0.00	0.00	0.00	1.00	0.00
Tree	0.00	0.00	0.00	0.00	1.00
Total	100.00	99.00	99.00	100.00	98.00

Report Parameters

SITE NAME LIKE	65069-BLACK-D120
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

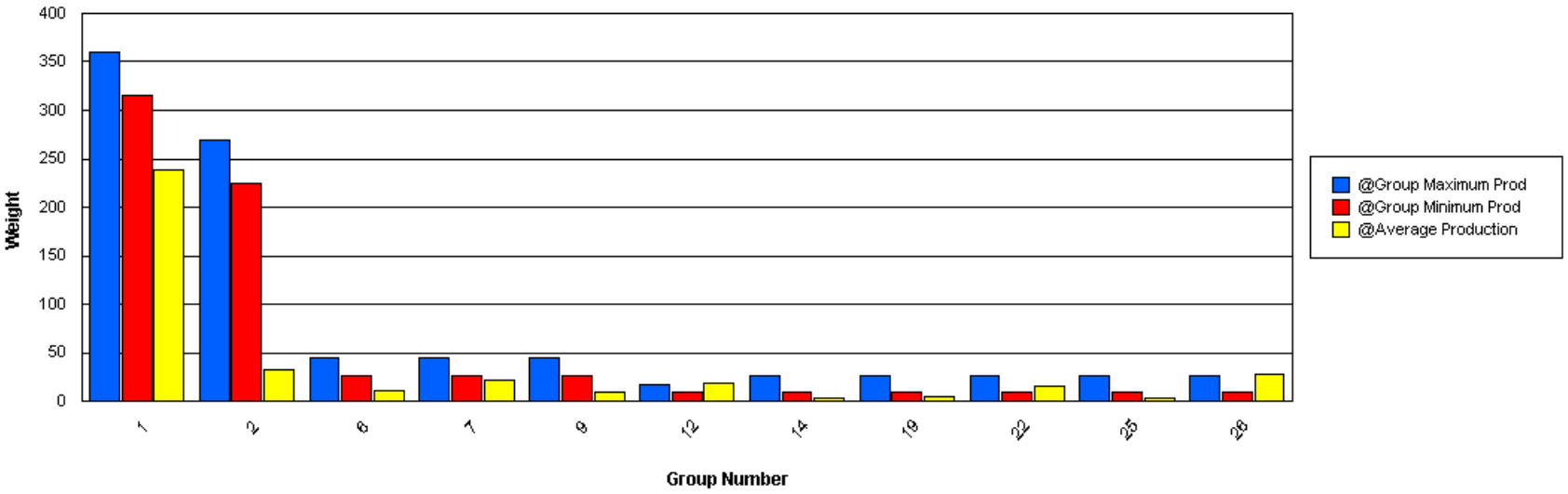
Functional / Structural Groups

Report Parameters

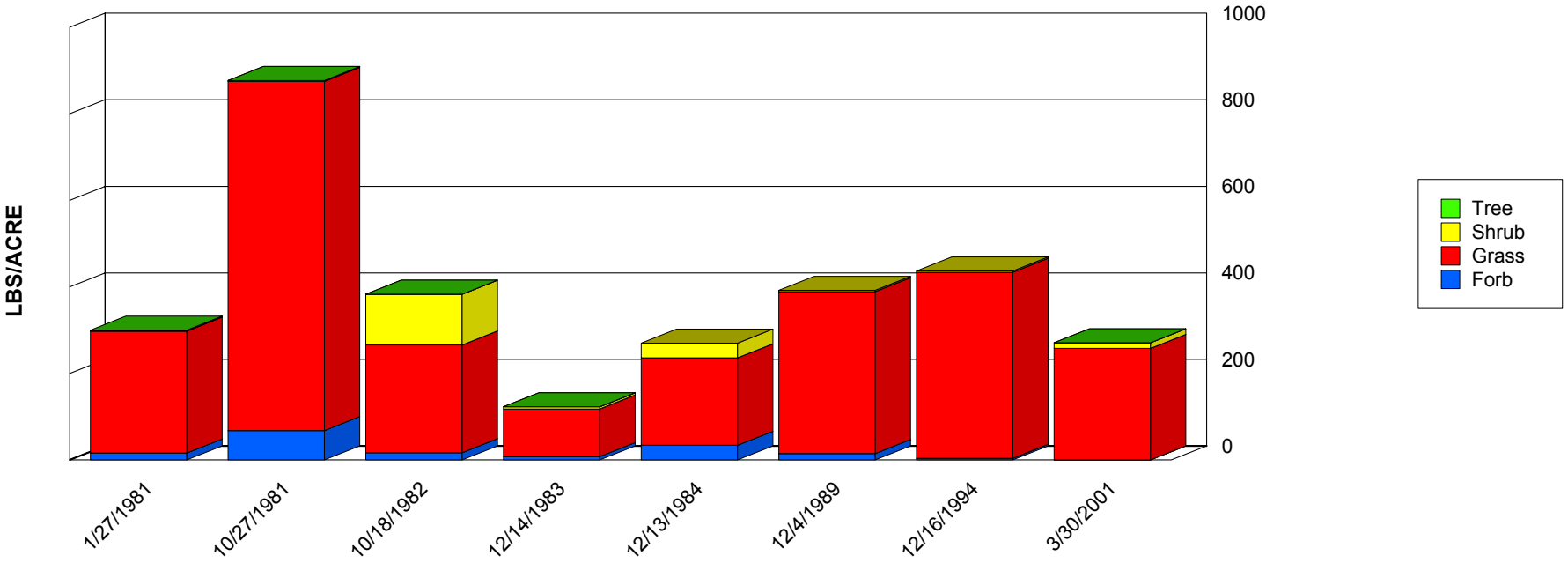
SITE NAME LIKE	65069-BLACK-D120
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2001
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	44.00	546.00	189.13	151.99
1	Grass	SCBR2	315	360	16.00	116.00	50.00	31.10
2	Grass	BOER4	225	270	0.00	53.00	21.88	19.80
2	Grass	BOGR2	225	270	0.00	31.00	11.25	8.73
6	Grass	SPAI	27	45	0.00	24.00	11.13	9.49
7	Grass	ARIST	27	45	0.00	41.00	14.25	14.25
7	Grass	SPCR	27	45	0.00	20.00	7.43	7.13
8	Grass	PAOB	9	27	0.00	9.00	2.75	3.19
9	Grass	MUAR	27	45	0.00	7.00	4.00	2.78
9	Grass	MUAR2	27	45	0.00	10.00	5.29	3.92
12	Grass	PAHA	9	18	0.00	117.00	18.25	37.84
14	Grass	TRMU	9	27	0.00	7.00	3.00	3.08
15	Grass	TRPI2	0	9	0.00	7.00	1.86	2.70
17	Grass	ERPU8	9	27	0.00	5.00	1.40	1.85
18	Forb	SPHAE	9	27	0.00	1.00	0.17	0.37
19	Forb	CROTO	9	27	0.00	7.00	2.29	2.25
19	Forb	CRPO5	9	27	0.00	2.00	0.33	0.75
19	Forb	LEFE	9	27	0.00	3.00	0.50	1.12
19	Forb	LESQU	9	27	0.00	4.00	1.00	1.73
19	Forb	PENA	9	27	0.00	4.00	1.43	1.29
21	Forb	ERTE13	9	27	0.00	0.00	0.00	0.00
21	Forb	LEMO2	9	27	0.00	2.00	0.40	0.80
22	Forb	AAFF	9	27	0.00	60.00	14.13	19.17
22	Forb	CIRSI	9	27	0.00	2.00	1.00	1.00
24	Forb	CIOC	9	27	0.00	5.00	1.00	2.00
24	Forb	SOEL	9	27	0.00	1.00	0.33	0.47

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
24	Forb	ZIGR	9	27	0.00	1.00	0.33	0.47
25	Shrub	EPHED	9	27	0.00	6.00	3.33	2.49
25	Shrub	EPTO	9	27	0.00	2.00	0.33	0.75
26	Shrub	GUSA2	9	27	0.00	96.00	23.67	34.05
26	Shrub	OPUNT	9	27	0.00	17.00	4.20	6.46
26	Tree	YUEL	9	27	0.00	2.00	0.40	0.80



Production Lbs/Acre Trends

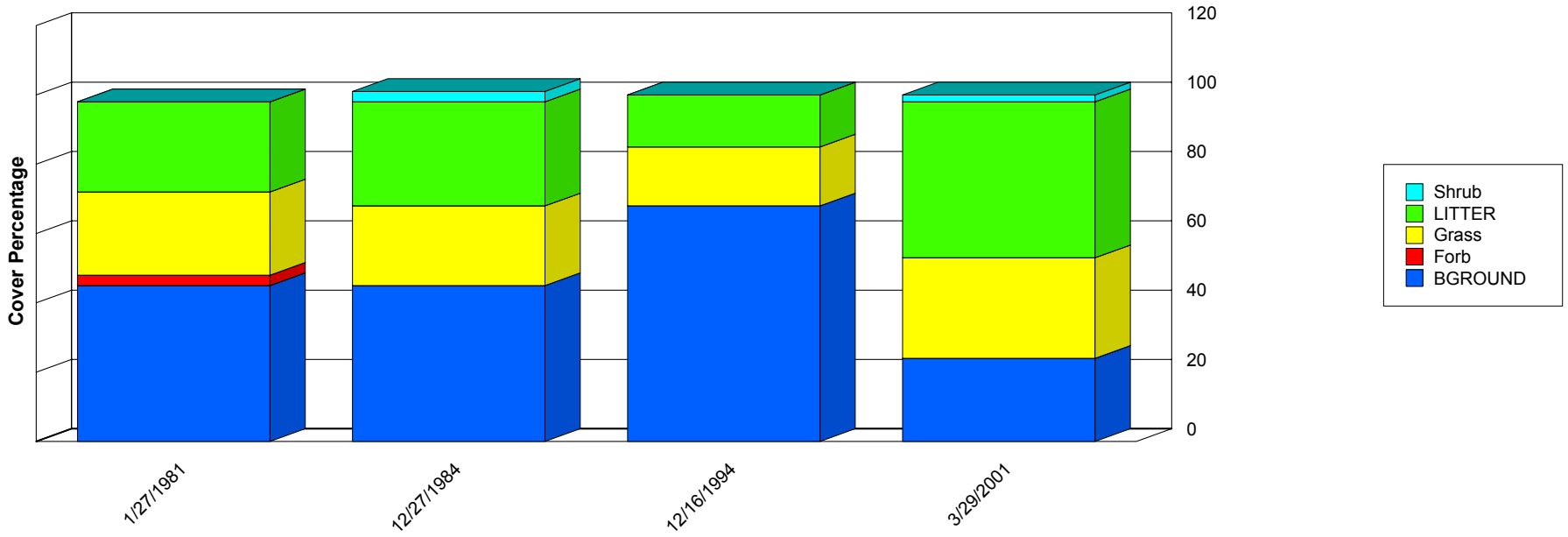


	1/27/1981	10/27/1981	10/18/1982	12/14/1983	12/13/1984	12/4/1989	12/16/1994	3/30/2001
Forb	**16.00**	**68.00**	**17.00**	**8.00**	**34.00**	**15.00**	**4.00**	**0.00**
Grass	**282.00**	**807.00**	**249.00**	**110.00**	**202.00**	**374.00**	**430.00**	**258.00**
Shrub	**0.00**	**2.00**	**117.00**	**5.00**	**34.00**	**3.00**	**3.00**	**13.00**
Tree	**2.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total	**300.00**	**877.00**	**383.00**	**123.00**	**270.00**	**392.00**	**437.00**	**271.00**

Report Parameters

SITE NAME LIKE	65069-BLACK-D120
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Ground Cover Trends



	1/27/1981	12/27/1984	12/16/1994	3/29/2001
BGROUND	45.00	45.00	68.00	24.00
Forb	3.00	0.00	0.00	0.00
Grass	24.00	23.00	17.00	29.00
LITTER	26.00	30.00	15.00	45.00
Shrub	0.00	3.00	0.00	2.00
Total	98.00	101.00	100.00	100.00

Report Parameters

SITE NAME LIKE	65069-SHIPPING TRAP-D123
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

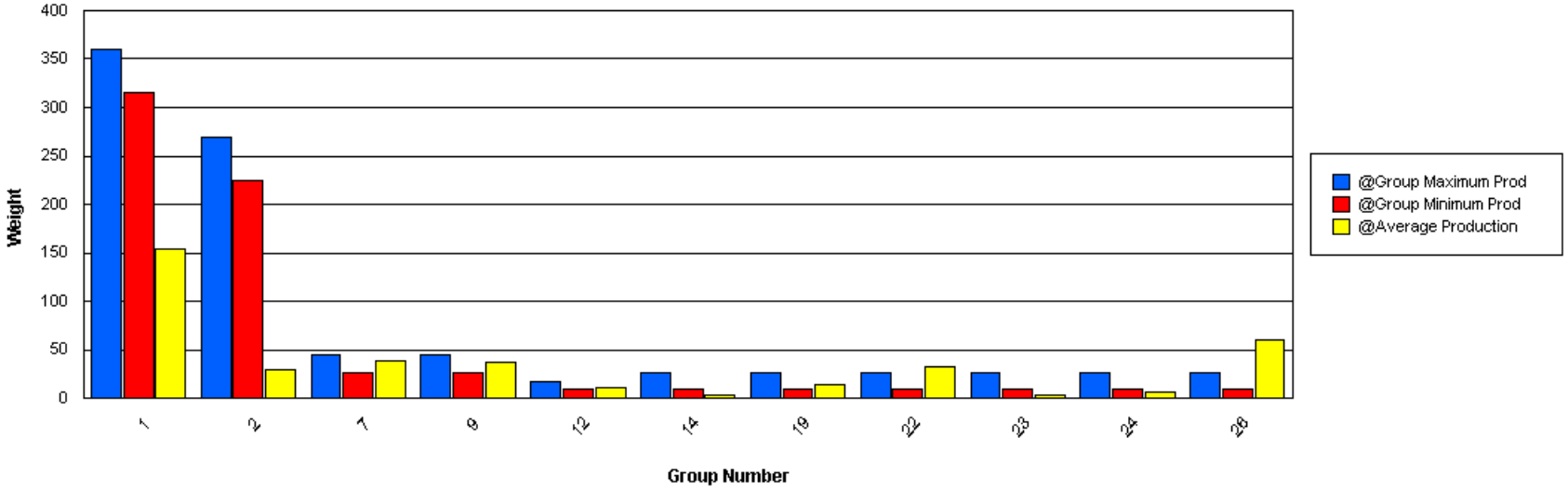
Functional / Structural Groups

Report Parameters

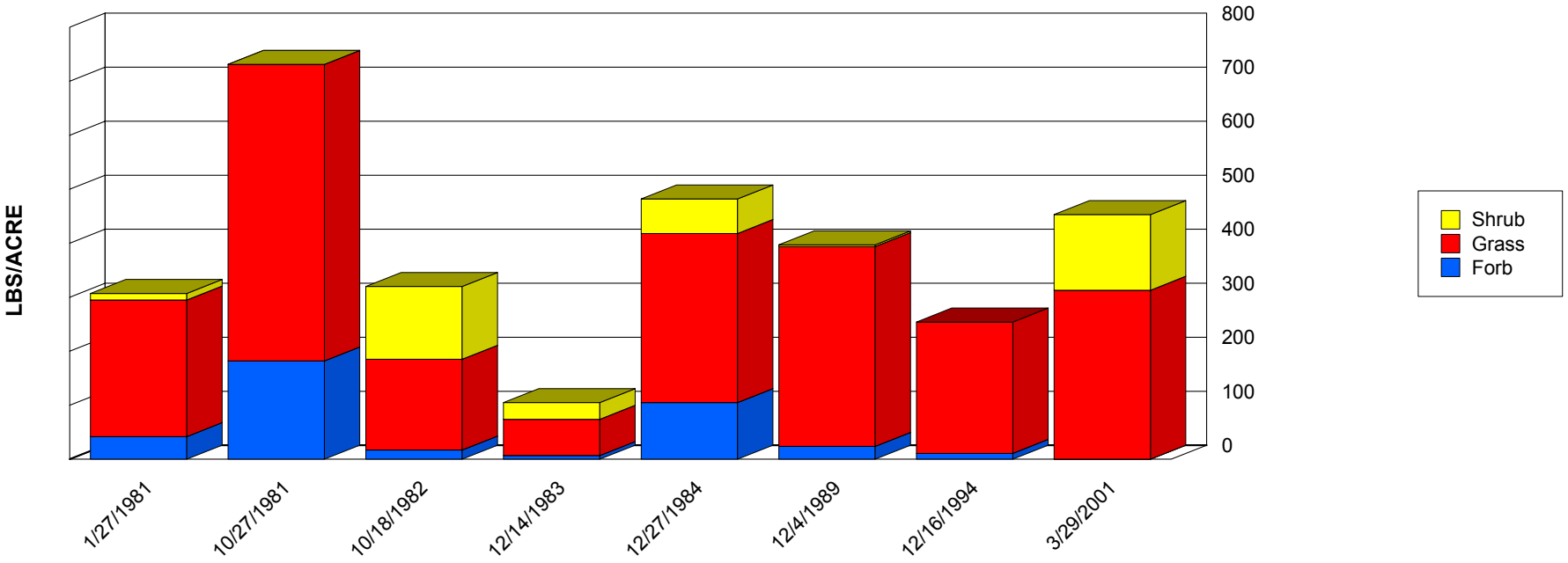
SITE NAME LIKE	65069-SHIPPING TRAP-D123
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2001
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	0.00	259.00	83.00	84.32
1	Grass	SCBR2	315	360	20.00	121.00	71.00	32.71
2	Grass	BOER4	225	270	0.00	62.00	20.75	20.72
2	Grass	BOGR2	225	270	0.00	31.00	9.13	9.83
7	Grass	ARIST	27	45	0.00	41.00	16.50	12.09
7	Grass	SPCR	27	45	8.00	35.00	21.88	7.96
8	Grass	PAOB	9	27	0.00	9.00	1.71	3.15
9	Grass	MUAR	27	45	0.00	34.00	11.38	12.05
9	Grass	MUAR2	27	45	0.00	71.00	26.63	24.23
12	Grass	PAHA	9	18	0.00	66.00	11.50	21.25
14	Grass	TRMU	9	27	0.00	12.00	4.00	5.66
15	Grass	TRPI2	0	9	0.00	1.00	0.43	0.49
17	Grass	ERPU8	9	27	0.00	3.00	1.75	1.30
18	Forb	SPHAE	9	27	0.00	5.00	1.00	2.00
19	Forb	CROTO	9	27	0.00	19.00	6.25	6.16
19	Forb	LESQU	9	27	0.00	16.00	4.00	6.93
19	Forb	PENA	9	27	0.00	17.00	4.25	5.14
20	Forb	ASTRA	9	27	0.00	1.00	0.17	0.37
21	Forb	ERTE13	9	27	0.00	0.00	0.00	0.00
22	Forb	AAFF	9	27	0.00	119.00	23.00	37.10
22	Forb	XADR	9	27	0.00	57.00	9.50	21.24
23	Forb	AMBRO	9	27	0.00	13.00	2.60	5.20
23	Forb	CHAMA8	9	27	0.00	2.00	0.40	0.80
24	Forb	CIOC	9	27	0.00	2.00	0.50	0.87
24	Forb	COCA2	9	27	0.00	2.00	0.40	0.80
24	Forb	MELE2	9	27	0.00	1.00	0.20	0.40

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
24	Forb	SOEL	9	27	0.00	16.00	4.25	6.80
24	Forb	ZIGR	9	27	0.00	4.00	0.80	1.60
26	Shrub	COER5	9	27	0.00	2.00	0.40	0.80
26	Shrub	GUSA2	9	27	0.00	135.00	38.50	48.76
26	Shrub	OPUNT	9	27	0.00	140.00	21.57	48.42



Production Lbs/Acre Trends

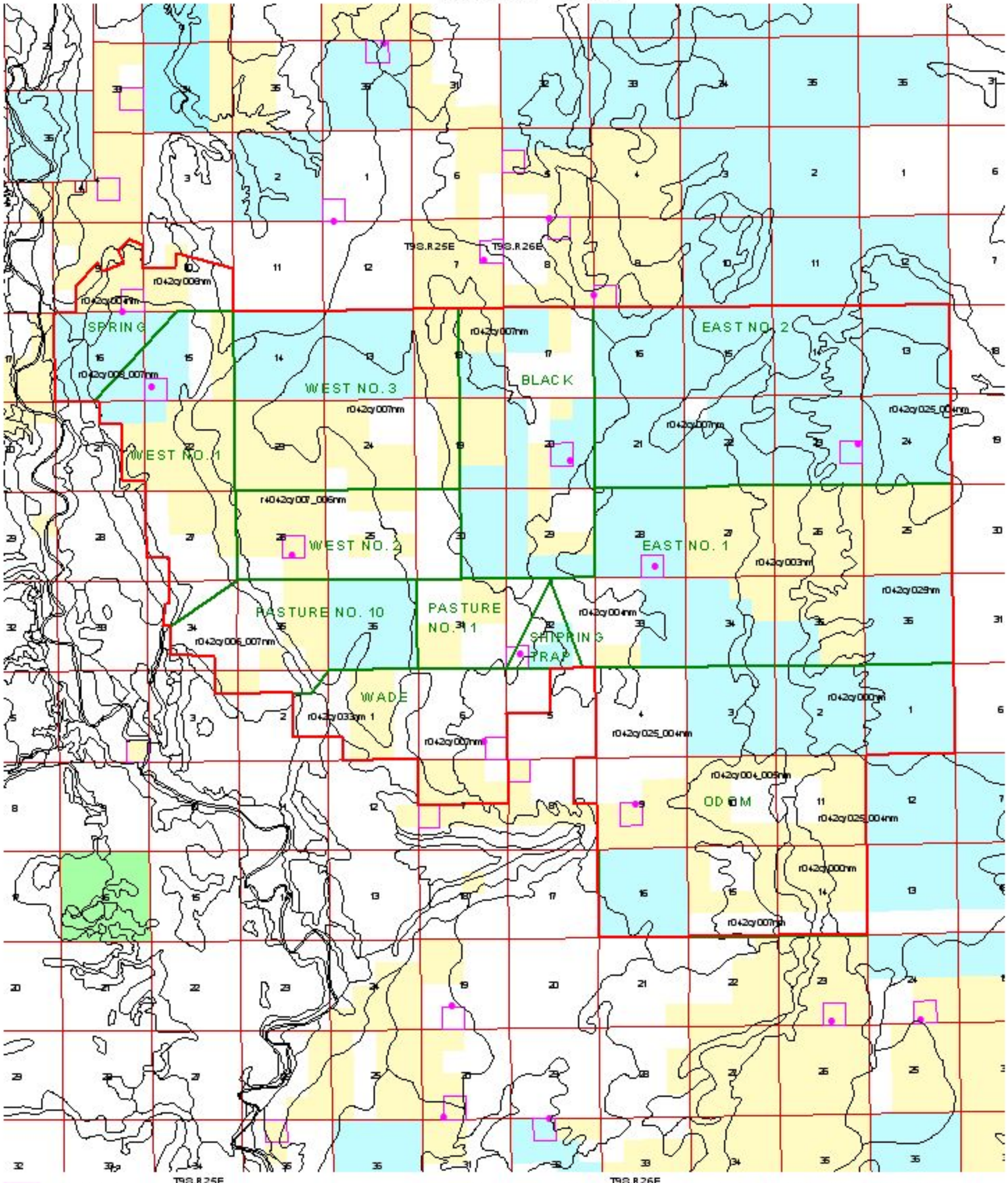


	1/27/1981	10/27/1981	10/18/1982	12/14/1983	12/27/1984	12/4/1989	12/16/1994	3/29/2001
Forb	**42.00**	**182.00**	**17.00**	**7.00**	**105.00**	**24.00**	**11.00**	**0.00**
Grass	**253.00**	**549.00**	**168.00**	**67.00**	**313.00**	**370.00**	**243.00**	**313.00**
Shrub	**12.00**	**0.00**	**135.00**	**31.00**	**64.00**	**3.00**	**0.00**	**140.00**
Total	**307.00**	**731.00**	**320.00**	**105.00**	**482.00**	**397.00**	**254.00**	**453.00**

Report Parameters

SITE NAME LIKE	65069-SHIPPING TRAP-D123
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2001

Rangeland Health Assessment
Ecological Sites
Allotment - 65069



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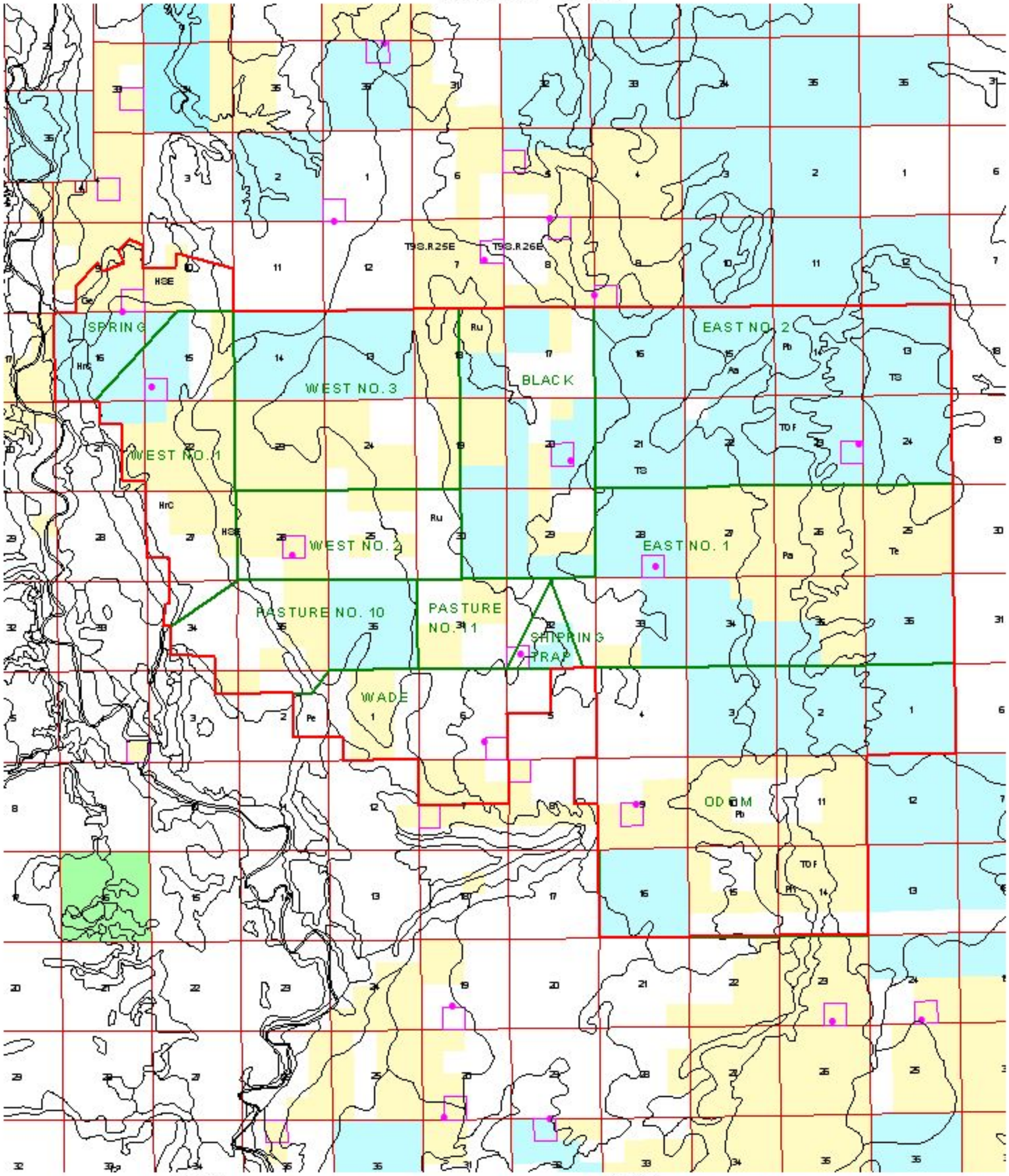
Rangeland Health Assessment
Soil Mapping Units
Allotment - 65069



Study Plots
40 Acres

Study Locations

State | Private | Public | FWS

0.7 0 0.7 1.4 Miles

Allotment Boundary

Pasture Boundary

Soil Mapping Units

Produced by the Roswell Field Office
GIS Specialist on May 14, 2003.